

Совет Безопасности

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ПИСЬМО ГЕНЕРАЛЬНОГО СЕКРЕТАРЯ ОТ 14 ЯНВАРЯ 2000 ГОДА НА ИМЯ ПРЕДСЕДАТЕЛЯ СОВЕТА БЕЗОПАСНОСТИ

Во исполнение пункта 9 резолюции 1281 (1999) от 10 декабря 1999 года имею честь представить подробный перечень запчастей и оборудования, которые необходимы для достижения цели, изложенной в пункте 1 резолюции 1175 (1998).

Для оказания помощи в составлении упомянутого выше перечня я направил в Ирак эксперта компании "Сейболт Нидерланд БВ", которая предоставляет по контракту, заключенному с Организацией Объединенных Наций, независимых нефтяных инспекторов с начала осуществления в Ираке гуманитарной программы в соответствии с резолюцией 986 (1995). Эксперт побывал в Ираке с 15 по 21 декабря 1999 года для оценки ситуации на месте и составления, в консультации с правительством Ирака, перечня запчастей и оборудования, которые необходимы для обеспечения того, чтобы Ирак имел возможность увеличить экспорт нефти и нефтепродуктов до объема, достаточного для получения суммы, определенной в пункте 2 резолюции 1153 (1998). Доклад эксперта прилагается для Вашего сведения (приложение I).

Как отмечалось в моих предыдущих докладах Совету Безопасности, нефтяная промышленность Ирака находится в плачевном состоянии. Неуклонно ухудшается состояние нефтепромысловых объектов в Ираке, в результате чего снижается уровень безопасности труда рабочих нефтяных промыслов, причиняется серьезный ущерб окружающей среде, а также наносится вред - в некоторых случаях непоправимый - нефтедобывающим скважинам; подробно об этом сообщается в моих предыдущих докладах Совету (S/1998/330 и Corr.1, S/1998/1233, S/1999/746 и Add.1, S/1999/1053 и S/1999/1162 и Corr.1). Дальнейшее ухудшение состояния нефтепромысловых объектов может также повлечь за собой существенное сокращение потенциала Ирака в области добычи и экспорта нефти, что будет иметь серьезные последствия для осуществления гуманитарной программы.

С учетом этого я хотел бы повторить свою рекомендацию, содержащуюся в моем письме от 12 октября 1999 года на имя Председателя Совета Безопасности (S/1999/1053) о том, чтобы Совет удовлетворил просьбу правительства Ирака об увеличении на 300 млн. долл. США объема ассигнований на закупку запасных частей и

оборудования для нефтяного сектора, что позволит довести общую сумму ассигнований в рамках этапа VI гуманитарной программы до 600 млн. долл. США. Я хотел бы также сообщить Совету, что средства для такого увеличения имеются.

Нынешние условия на объектах нефтяного сектора, о которых говорилось выше, требуют незамедлительного принятия мер по исправлению положения. Если заявки на контракты на ключевые наименования запчастей и оборудования для нефтяного сектора не будут в срочном порядке утверждены, а сами такие запчасти и оборудование не будут поставлены и введены в эксплуатацию в самое ближайшее время, объем добычи нефти может упасть, даже в режиме "хозяйствования в условиях существенного риска".

Что касается этапа VII, то правительство Ирака предложило установить квоту средств на приобретение запасных частей и оборудования для нефтяного сектора в размере 600 млн. долл. США, что вдвое превышает сумму в 300 млн. долл. США, утвержденную Советом в резолюции 1281 (1999). По мнению эксперта, с учетом нынешнего положения дел в нефтяном секторе, предлагаемая квота в размере 600 млн. долл. США представляется разумной.

Без ущерба для существа предложения правительства Ирака и оценки, проведенной экспертом, мне хотелось бы и далее держать этот вопрос в поле зрения до получения доклада группы в составе шести экспертов, включая экспертов по нефтяной промышленности, которую я направляю в Ирак с 15 по 31 января 2000 года для проведения обзора положения в нефтедобывающем секторе Ирака. Рекомендации этой группы экспертов будут учтены в моем докладе Совету во исполнение пункта 28 резолюции 1284 (1999) о прогрессе, достигнутом в удовлетворении гуманитарных потребностей иракского населения, и о поступлениях, необходимых для удовлетворения этих потребностей, включая рекомендации в отношении необходимого увеличения нынешней квоты средств на приобретение запасных частей и оборудования для нефтяного сектора.

По состоянию на 13 января 2000 года Управление Программы по Ираку получило в общей сложности 1991 заявку на общую сумму свыше 1,1 млрд. долл. США на приобретение запасных частей и оборудования для иракской нефтяной промышленности, из них 1392 заявки на общую сумму 721 млн. долл. США были распространены и 50 объявлены недействительными.

Из общего числа распространенных заявок 900 заявок на общую сумму 447 млн. долл. США были утверждены Комитетом Совета Безопасности, учрежденным резолюцией 661 (1990); рассмотрение 438 заявок на общую сумму 217,8 млн. долл. США было отложено; и в отношении 54 заявок на сумму 56,2 млн. долл. США ожидается решение Комитета. Остаются 133 заявки на общую сумму 120,5 млн. долл. США, которые были оценены Управлением Программы по Ираку, однако еще не распространены в силу того, что заявители не представили достаточную информацию. Кроме того, по причине получения весьма значительного количества заявок на запасные части и оборудование для нефтяного сектора в период с ноября 1999 года остается еще 416 заявок на общую сумму 263 млн. долл. США, которые находятся в настоящее время на рассмотрнии до распространения. Общая стоимость запчастей и оборудования для нефтяного сектора, поступивших в Ирак, составляет по состоянию на 13 января 2000 года 259,9 млн. долл. США.

В свете вышеизложенного я хотел бы выразить надежду на то, что Комитет Совета Безопасности будет как можно более оперативно рассмотривать и утверждать заявки на запасные части и оборудование для нефтяного сектора и вернется к рассмотрению всех отложенных заявок.

Кофи А. АННАН

Приложение І

Доклад в соответствии с пунктом 9 резолюции 1281 (1999) Совета Безопасности

А. Круг ведения

1. В пункте 9 своей резолюции 1281 (1999) от 10 декабря 1999 года Совет Безопасности просил Генерального секретаря в консультации с правительством Ирака представить Совету не позднее 15 января 2000 года подробный перечень запчастей и оборудования, которые необходимы для достижения цели, изложенной в пункте 1 резолюции 1175 (1998).

В. Введение

- 2. По просъбе Генерального секретаря в Ираке побывал эксперт в целях определения текущих потребностей в запчастях и оборудовании с точки зрения способности Ирака поддерживать экспорт сырой нефти на нынешнем уровне, а также для изучения и дальнейшей оценки перспектив увеличения объема экспорта.
- 3. Эксперт находился в Ираке с 15 по 21 декабря 1999 года. С тем чтобы завершить составление перечня запчастей и оборудования для нефтяной промышленности, он провел встречи с высокопоставленными представителями министерства нефти и всех компаний, действующих в нефтедобывающем секторе Ирака.

С. <u>План распределения для этапа VII</u>

4. Представленный правительством Ирака план распределения для этапа VII в том, что касается запчастей и оборудования для нефтяного сектора, преследует следующие цели:

Добыча и транспортировка

- а) заканчивание 240 скважин (40 на севере, 200 на юге), включая скважины для нагнетания воды;
- b) бурение 160 новых скважин (70 на севере, 90 на юге), с тем чтобы поддерживать добычу на уровне 3 млн. баррелей в день и увеличить ее в течение 2000 года до 3,3-3,4 млн. баррелей в день (такова квота, установленная для Ирака ОПЕК в 1990 году), при условии, что будет обеспечено своевременное и полное поступление запасных частей;
- с) подсоединение 120 добывающих скважин к сети (50 на севере, 70 на юге) при наличии необходимых сборных нефтепроводов и соответствующего оборудования;
- d) установка оборудования для решения проблем обводненной сырой нефти, особенно в северных районах (месторождения Баба и Джамбур);

- е) поддержание уровня добычи посредством разработки нефтяных месторождений как на севере, так и на юге, для обеспечения чего важное значение имеют сборные трубопроводы и задвижки на устье скважины;
- f) уделение особого внимания вопросам борьбы с загрязнением и экологического ущерба, особенно в том, что касается загрязнения воздуха;
- g) уделение особого внимания вопросам добычи и доставки газа для 12 недавно введенных в эксплуатацию энергетических установок, работающих на газе:

Переработка и сбыт

- а) повышение качества продукции на основе модернизации нефтеперерабатывающих заводов и конкретных установок (установка № 2 по производству смазочных материалов на нефтеперерабатывающем заводе Байджи);
- b) сокращение применения тетраэтилсвинцовых присадок на основе введения в эксплуатацию изомеризационной установки в Дауре и блока псевдоожижаемого каталитического крекинга в Байджи, благодаря чему доля неэтилированного бензина в общем объеме его производства будет доведена до 30 процентов;
- с) повышение эффективности работы изомеризационных установок в целях снижения уровня содержания серы в газойле с 1,2 процента в настоящее время до целевого показателя 0,2 процента;
- d) уделение целенаправленного внимания качеству фильтрования выбрасываемых газов на предприятиях Северной и Южной газовых компаний;
- е) повышение эффективности распределения продукции на основе введения в оборот дополнительного числа газовых баллонов, увеличения числа автоцистерн и создания более вместительных хранилищ готовой продукции;
- f) подвод к электростанциям газо- и нефтепроводов с отказом от автодорожных перевозок;
- g) ремонт газохранилища в Зубайре с целью повысить эффективность поставок и обеспечить возможность хранения газа (вместо его сжигания в факелах) в период низкого спроса и создание экспортного терминала.

D. Производство на этапе VI

5. Незначительное увеличение объема добычи и последующее увеличение объема экспорта в рамках этапа VI было обеспечено благодаря включению в сеть ранее пробуренных скважин, как следствие (краткосрочное) осуществления проектов по нагнетанию воды и в результате получения реагентов (в частности деэмульгаторов) для использования на местах по программе поставок запчастей, осуществление которой было начато на этапе IV.

Е. Нынешний уровень добычи

- 6. По заявлению министерства нефти средний объем добычи на этапе VI составил 2,75 млн. баррелей в день, таким образом, с учетом местного потребления в объеме 0,6 млн. баррелей в день, достигнут экспортный показатель в 2,15 млн. баррелей в день. В министерстве нефти эксперту было заявлено, что это было обеспечено "в режиме хозяйствования в условиях существенного риска", а не на основе осуществления "планомерной программы рациональной эксплуатации месторождений нефти".
- 7. Как показало наблюдение, фактический объем экспорта на протяжении последних трех этапов составлял:

Этап IV - 1 712 000 баррелей в день

Этап V - 2 009 000 баррелей в день

Этап VI - 2 164 600 баррелей в день

- 8. На прежних целевых показателях добычи (установленных в июне 1999 года в объеме 3 млн. баррелей в день к декабрю 1999 года, 3,2 млн. баррелей в день к марту 2000 года и 3,5 млн. баррелей в день к декабрю 2000 года) отразились задержки в утверждении заявок и поставках запасных частей и оборудования.
- 9. Таким образом, нынешние прогнозы в отношении добычи в значительной мере зависят от утверждения контрактов, прибытия и распределения столь необходимых запасных частей и оборудования для нефтяной промышленности и от их оперативной установки и ввода в эксплуатацию. Вопрос о значимости запасных частей и оборудования будет всесторонне обсужден в ходе предстоящей поездки группы экспертов, намеченной на январь 2000 года.
- 10. По мнению министерства нефти, в случае утверждения всех отложенных заявок и последующей оперативной обработки документации и обеспечения поставок целевой показатель на уровне 3,3-3,4 млн. баррелей в день представляется реалистичным; однако более вероятен, по оценке министерства нефти, сценарий, по которому объем добычи будет приблизительно на 300 000 баррелей в день ниже.
- 11. По оценкам, местные нефтеперерабатывающие заводы потребляют приблизительно 540 000 баррелей нефти в день, а в Иорданию поставляется от 70 000 до 90 000 баррелей в день.
- 12. Принимая во внимание, что средний объем добычи на этапе VI составлял 2,75 млн. баррелей в день, и исходя из консервативной оценки того, что темпы утверждения заявок и последующего прибытия запасных частей и оборудования, скорее всего, не изменятся существенным образом в ближайшем будущем, ожидается, что объем добычи на этапе VII в среднем будет находиться в районе 2,5-2,6 млн. баррелей в день. При сохранении нынешних уровней потребления нефти на местных нефтеперерабатывающих заводах и поставок сырой нефти в Иорданию это будет означать, что общий объем экспорта нефти составит порядка 1,95-2 млн. баррелей в день, т.е. будет находиться на уровне, аналогичном тому, который был достигнут на этапе VI.

F. Запасные части и оборудование для этапа VII

- 13. Перечень запасных частей и оборудования для нефтяного сектора для этапа VII представлен, как и на предыдущих этапах, по 13 разделам с разбивкой по нефтяным компаниям с указанием суммы выделяемых для каждой из них денежных средств, которая была определена правительством Ирака.
- 14. Как и в рамках этапа VI, имеется ряд специальных проектов, и в этой связи в систему нумерации позиций по поставкам были внесены изменения, с тем чтобы выделить такие индивидуальные проекты. Завершение этих проектов будет зависеть от обеспечения поставок по всем определенным позициям в соответствующие сроки.
- 15. Общая стоимость запчастей и оборудования, которые включены в перечень, превышает 300 млн. долл. США, как предусматривается в соответствии с резолюцией 1281 (1999) Совета Безопасности, и, судя по предварительной оценке, превысит 600 млн. долл. США, если будут утверждены контракты на поставки по всем позициям. Эксперт отметил, что, как сообщило ему правительство Ирака, в рамках этапа VI подписаны контракты на 630 млн. долл. США.
- 16. Как и предсказывалось в предыдущих докладах, объем добычи сырой нефти достиг пика. Если ключевые наименования запчастей и оборудования не будут поставлены и введены в эксплуатацию в самое ближайшее время, объем добычи может упасть даже в режиме "хозяйствования в условиях существенного риска". С технической точки зрения (и как ранее указывалось в нашем докладе см. S/1999/746) для изменения этого положения потребовалось бы увеличение объема средств, выделяемых на запчасти и оборудование в рамках этапа VI. Поэтому предлагаемый правительством Ирака размер выделяемых средств в рамках этапа VII с учетом нынешнего положения дел представляется разумным.

G. <u>Бюджеты нефтяных</u> компаний

"Норт ойл компани" - 135 млн. долл. США

- 17. Заявка компании "Норт ойл компани" на запасные части и оборудование включает ремонт и эксплуатацию, а также следующее:
 - а) бурение 70 новых скважин на месторождениях Киркук, Бай-Хасан и Саддам;
- b) капитальный ремонт 40 скважин в районе добычи компании "Норт ойл компани";
 - с) текущий ремонт скважин в районе добычи компании "Норт ойл компани";
- d) установки для очистки загрязненной водой сырой нефти на месторождениях Баба и Джамбур.

"Саут ойл компани" - 230 млн. долл. США

18. На данный момент эта компания получает наибольший объем ресурсов, выделяемых министерством нефтяной промышленности, что является отражением стоящих перед этим регионом проблем. Основные проекты включают:

- a) бурение и заканчивание 90 новых скважин на месторождениях Северная и южная Румайла, Лухаис и Эз-Зубайр;
 - b) капитальный ремонт и заканчивание 200 скважин по всему региону;
- с) продолжение работ по восстановлению нефтебазы в Фао в целях увеличения вместимости хранилища и повышения экспортного потенциала;
 - d) продолжение работ по освоению месторождения Западная Курна;
 - е) реконструкция станций дегазирования в Южной Румайле;
 - f) ремонт и реконструкция нефтехимических установок и компрессорных станций.

"Ираки дрилинг компани" - 35 млн. долл. США

19. В заявке компании "Ираки дрилинг компани" предусматриваются поставка запчастей и оборудования для удовлетворения потребностей в ремонте и эксплуатации имеющихся буровых установок и установок для капитального ремонта скважин и закупка четырех новых установок.

"Ойл проджектс компани" - 10 млн. долл. США

20. Данная заявка предназначена главным образом для удовлетворения потребностей в строительном оборудовании, вместе с соответствующими запчастями, расходных материалах, оборудовании для проведения неразрушающих испытаний (рентгеноскопии) и необходимых системах вспомогательного обслуживания делопроизводства.

"Ойл эксплорейшн компани" - 10 млн. долл. США

21. Данная заявка включает оборудование для вспомогательного обслуживания работ по разведке и добыче нефти, транспортировки на местах, проведения геологических исследований и анализа и контракт на предоставление услуг по расшифровке имеющихся геологических данных, которые быстро теряют свою ценность.

"Норт рефайнерис компани" - 30 млн. долл. США

- 22. В планах этапа VII для нефтеперерабатывающего предприятия в Байджи во многих случаях повторяются те же виды оборудования, которые были предусмотрены в рамках этапа VI, но не были заказаны (воздуходувная установка для фасовки асфальта, установка улавливания серы) или были заказаны лишь частично (установки гидродесульфуризации, комплекс по производству смазочных масел). Новые проекты этапа VII включают:
 - а) принадлежности для очистки бойлерной воды;
 - b) проект опреснения сырой воды;
- с) установка сжиженного каталитического крекинга для повышения качества бензина:

d) оборудование для снижения загрязненности сточных вод.

"Мидлэнд рефайнерис компани" - 22,5 млн. долл. США

23. Планы этапа VII для нефтеперерабатывающего предприятия "Даура" предусматривают общий ремонт и эксплуатацию, автоматическую работу бойлерных установок и проект ввода в эксплуатацию установки для изомеризации нафты для повышения качества бензина.

"Саут рефайнерис компани" - 24,5 млн. долл. США

24. В заявке в обобщенном виде перечислены запчасти и оборудование для ремонта и эксплуатации, включая автоматическую систему контроля за наполнением резервуаров и дополнительные водоочистные установки.

"Норт гэс компани" - 10 млн. долл. США

25. Данная заявка охватывает широкий круг транспортных потребностей, системы контроля за состоянием окружающей среды, оборудование, обеспечивающее безопасность работ, и расходные материалы общего назначения.

"Саут гэс компани" - 15 млн. долл. США

- 26. Помимо обычных запчастей и оборудования для ремонта и эксплуатации планами компании "Саут гэс компани" предусматривается:
- а) ремонт установок для сжижения природного газа и получения сжиженного нефтяного газа в Хор-Зубайре в целях очистки и хранения газа для использования на электростанциях и в быту, что позволит сократить объем сжигаемого в факелах газа и уровень последующего загрязнения, а также ремонт установки для хранения и охлаждения газа в Хор-Зубайре;
- b) ремонт установки для очистки сернистого нефтяного газа в Северной Румайле.

"Ойл продакте дистрибьюшн компани" - 32 млн. долл. США

27. Запасные части и оборудование для ремонта и эксплуатации системы распределения на всей территории Ирака, включая материалы и оборудование для строительства девяти резервуаров для хранения нефтепродуктов в районе Евфрата, Мосула и Багдада для уменьшения зависимости от автомобильного транспорта.

"Ойл пайплайнз компани" - 41 млн. долл. США

28. В заявку включены системы контроля и проведения внутренних измерений, а также насосные станции для северного района (Мосул) для поставки топлива на местную электростанцию, и начало работ по ремонту сухого газопровода Северная Румайла-Эн-Насирия в соответствии с контрактом на автоматизированную чистку трубопровода. В заявку включено также оборудование для ремонта газокомпрессорной станции в Северной Румайле.

"Гэс филлинг компани" - 25 млн. долл. США

29. Как и на предыдущих этапах планом распределения предусматривается прежде всего замена протекающих и опасных в эксплуатации баллонов для сжиженного нефтяного газа, включая запчасти и оборудование для ремонта и эксплуатации газонаполнительных установок на всей территории страны.

Annex II

Phase VII oil sector requirements - list of spare parts and equipment

ESTABLISHMENT NAME: NORTH OIL COMPANY MINISTRY OF OIL

SHEET NO.: 1 OF 23

LOCATION: ALL NOC FIELDS

MATERIALS AND EQUIPMENT'S FOR OIL

WELL DRILLING

ACTIVITY NO. (01):

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|--------|--|
| 08-7-01-0001 | CASING & TUBING (VARIOUS, SIZES, GRADES & WEIGHTS) | MTR. | 400000 | Items required to drill 70 new wells in North area, including Kirkuk, Bia Hassan & Saddam fields |
| 08-7-01-0002 | CASING ACCESSORIES (VARIOUS). | NOS. | 15000 | = |
| 08-7-01-0003 | ROCK BITS (VARIOUS) & NOZZLES (VARIOUS). | NOS. | 1500 | = |
| 08-7-01-0004 | SINGLE PACKERS WITH ALL ACCESSORIES (VARIOUS) | SET | 75 | - |
| 08-7-01-0005 | PACKER AND PRODUCTION STRING WITH ALL ACCESSORIES FOR DUAL PRODUCTION. | SET | 4 | = |
| 9000-10-2 | OIL WELL CEMENT &ADDITIVES | TON | 1000 | = |
| 08-7-01-0007 | MUD MATERIALS | TON | 20000 | = |
| 08-7-01-0008 | WELL HEADS & X-MAS TREES WITH ACCESSORIES AND SPARE PARTS (VARIOUS). | SET | 70 | = |
| 08-7-01-0009 | LINER HANGER CEMENTED & UNCEMENTED WITH SEATING TOOLS AND ACCESSORIES (VARIOUS). | SET | 50 | Ξ |
| 08-7-01-0010 | DRILLING SERVICE CONTRACT FOR DRILLING (33) WELLS IN DIFFERENT FIELDS OF N.O.C. AREA | WELL | 33 | - |

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SHEET NO: 2 OF 23

MINISTRY OF OIL ESTABLISHMENT NAME: NORTH OIL COMPANY

LOCATION: ALL NOC FIELDS

MATERIALS AND EQUIPMENT FOR OIL WELL WORKOVER

ACTIVITY NO. (02):

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|-------|--|
| 08-7-02-0011 | X-MAS TREES &TUBING SPOOL WITH ALL ACCESSORIES & SPARE PARTS (VARIOUS). | ASS | 40 | Equipment required to carry out well workovers on 40 wells in North region |
| 08-7-02-0012 | DOUBLE STUDDED ADAPTERS &ACCESSORIES &SPARES FOR THE EXISTING WELL HEADS &X- MAS TREES | LOT | 2 | |
| 08-7-02-0013 | TUBING (VARIOUS SIZES, GRADES, & WEIGHTS.) | MTR. | 00009 | 44 |
| 08-7-02-0014 | SINGLE PACKERS WITH ALL ACCESSORIES | SET | 40 | 11 |
| 08-7-02-0015 | UNCEMENTED LINER HANGER WITH SETTING TOOLS & ACCESSORIES. | SET | 10 | |
| 08-7-02-0016 | LINER HANGER SETTING TOOLS & SPARES (FOR THE EXISTING EQUIPMENT). | LOT | 2 | = |
| 08-7-02-0017 | CROSS -OVER SUBS | NOS. | 300 | 2 |

MINISTRY OF OIL ESTABLISHMENT NAME: NORTH OIL COMPANY

SHEET NO: 3 OF 23

LOCATION: ALL AREAS

SUPPORTING MATERIALS AND EQUIPMENT FOR PRODUCTION MAINTENANCE

ACTIVITY NO. (03):

| LTEM DESCRIPTION CEMENTING UNITS COMPLETE WITH ACCESSORIES & |
|---|
| SFARES FOR 1 WO LEARS OF ERALIUM HEAVY DUTY TRACTIVE UNIT FOR CEMENTING UNITS |
| SPARE PARTS FOR BJ CEMENTING UNIT & GM ENGINES. |
| SPARE PARTS FOR JOHNSTON FORMATION TESTING TOOLS. |
| AIR COMPRESSORS FOR CEMENTING WITH SPARES FOR TWO YEARS OPERATION |
| LIFTING CAR (FOR LIFT), TEN TONS LIFTING CAPACITY WITH SPARES FOR TWO YEARS OPERATION. |
| TRUCK MOUNTED WIRE-LINE UNIT |
| HYDROCHLORIC ACID TRANSPORT TRAILERS |
| MECHANICAL DOWNHHOLE PRESSURE GUAGE (KPG TYPE) COMPLETE WITH SPARE PARTS |
| HYDROCHLORIC ACID STORAGE PLANT |
| STAINLESS STEEL WELL MEASURING SLICK-LINE |
| EXPLOSIVE BUNKERS (FOR TRANSPORTING & STORAGE OF WELL PERFORATING MATERIALS). |
| SKID MOUNTED GEOLOGICAL LAB. |
| FIELD GEOLOGICAL LAB EQUIPMENT. |
| SOFT WERE GEOLOGICAL APPLICATION |

MINISTRY OF OIL

ESTABLISHMENT NAME: NORTH OIL COMPANY

SHEET NO: 4 OF 23

LOCATION: ALL AREAS

SUPPORTING MATERIALS AND EQUIPMENT FOR PRODUCTION MAINTENANCE

ACTIVITY NO. (03):

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|--------|-----|--|
| 08-7-03-0033 | SOFTWARE AND HARDWARE PACKAGE FOR RESERVOIR ENGINEERING AND MANAGEMENT COVERING PRODUCTION WELL & FLOW LINES EVALUATION & ANALYSIS, LOGGING INTERPRETATION, DATABASE AND ARCHIVING SYSTEM. THE PACKAGE INCLUDES: RELEVANT UPDATEABLE SOFTWARE (SPECIALIZED & GENERAL) LANS WITH SERVERS CONNECTED TO PCS & WORKSTATIONS, NETWORK MATERIALS AND ALL RELEVANT PERIPHERALS (SCANNERS (A0, A3, A4) PLOTIERS (A0,A3), PRINTERS, UPS, CD-W, & TAPE STORAGE MULTI MEDIAETC] SUPPORTING UNITS AND MATERIALS | SYSTEM | ю | Hardware and software items for production analysis, logging interpretation and archiving of exisiting deteriorating archive material. |
| 08-7-03-0034 | LAB TESTING EQUIPMENT &MATERIALS FOR OIL, GAS & WATER QUALITY CONTROL | LOT | 3 | Laboratory equipment and materials for quality control of field operations. |
| 08-7-03-0035 | SUBMERSIBLE PUMPS FOR INDUSTRIAL WATER FOR DRILLING | SET | 30 | Specialized submersible pumps for removal of water from wells |

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MINISTRY OF OIL ESTABLISHMENT NAME: NORTH OIL COMPANY

SHEET NO: 5 OF 23

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| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENTS |
|--------------|--|--|-----|--|
| | ELECTRICAL | ************************************** | | |
| 08-7-00-0036 | MAINTENANCE OF AUTOMATIC TAP CHANGER FOR 33/11 KV TRANSFORMERS AT 1T1 & NEW PROCESS PLANT | NOS. | 9 | Spares and equipment for transformers at 1T-1 and new process plant |
| 08-7-00-0037 | SPARES FOR SIEMENS SWITCH GEAR AT ITIA & IT2A | NOS. | 200 | Spares for switch gear at IT-1A and IT-2A |
| | CONTROL & INSTRUMENTS | | | |
| 08-7-00-0038 | REPLACEMENT OF OBSOLETE CONTROL SYSTEM FOR ITP LINE | LOT. | 1 | Replacement of RTU's at IT-2, IT1-A and IT-1 required for pipeline operational control |
| 08-7-00-0039 | REPLACEMENT OF OBSOLETE CONTROL SYSTEMS OF NEW PROCESS PLANT AND OLD PROCESS PLANT | LOT | 7 | Control system spares for both old and new process plant in North area |
| | MECHANICAL | | | |
| 08-7-00-0040 | AIR COMPRESSORS, ELEC. DRIVEN WITH HUMIDRYER TO BE USED IN PROCESS PLANTS. | NOS. | 12 | Spare parts for maintenance of compressors in process plants. |
| 08-7-00-0041 | INTELLIGENT PIGGING OF REMAINDER OF THE ITP 40 INCH FROM FATHA TO (MS). | LOT. | 1 | Contract for intelligent pigging of balance of 40" line required after results of first report on previous section. |
| 08-7-00-0042 | REPLACEMENT OF OBJECT PUMPS IN PROCESS PLANTS(ELECTRICAL & DIESEL DRIVEN) | NOS. | 24 | Items for maintenance of pumps in process plants. |
| 08-7-00-0043 | SPARE PARTS FOR VARIOUS TYPES OF PROCESS PUMPS | LOT. | 9 | = |
| | CIVIL | | | |
| 08-7-00-0044 | THERMAL INSULATING MATERIALS VARIOUS TYPES FOR HEATERS & CHIMNEYS: INSULATING, BRICKS, MORTAR, BRACKETS, JOINT MATERIALS(FILLING) & FIRE PROOF COATINGETC | LOT. | ဗ | Items for maintenancer and repair of the 2nd chimeny at the North Gas Plant, plus heaters, following on repair to the 1st chimney. |

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SHEET NO.: 6 OF 23 ESTABLISHMENT NAME: NORTH OIL COMPANY MINISTRY OF OIL

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| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|----------|-----|--|
| | ELECTRICAL | | | |
| 08-7-00-0045 | REWINDING OF 930 KW, 3.3 KV MOTOR ABROAD | CONTRACT | - | Overseas contract for the re- winding of electric motor from KI. |
| | INSTRUMENTS | | | |
| 08-7-00-0046 | REPLACEMENT OF CONTROL SYSTEM FOR (EM 85) GAS TURBINES AT WATER INJECTION PLANT | SET. | 2 | Replacement control system for gas turbines at NOC water injection plants. |
| 08-7-00-0047 | INSTALLATION OF FLOW METERS FOR BIA HASSAN WATER INJECTION SYSTEM | LOT. | 1 | Measurement system for Bai Hassan water injection system. |
| 1 | MECHANICAL | | | |
| 08-7-00-0048 | SPARE PARTS FOR RIVER AND GRAVITY PUMPS IN ZAB- AREA. | LOT. | 2 | Spares for ZAB area pumps for river water (water injection) |
| | REPLACEMENT OF OBSOLETE PUMPS IN WATER INJECTION PLANT | | | Replacement of obselete pumps for water injection facilities in North |
| 08-7-00-0049 | - REPLACEMENT OF WATER INJECTION PUMPS WITH ACCESSORIES | NOS. | 4, | arca. |
| | - REPLACEMENT OF BACK WASH PUMPS WITH ACCESSORIES | NOS. | 84 | |
| 08-7-00-0050 | REPAIR OF ROTORS OF G.E.C TURBINES. | NOS. | 3 | Rotor repairs for turbines in ZAB area (water injection) |
| | | | | |

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ESTABLISHMENT NAME: NORTH OIL COMPANY LOCATION: DEGASSING & COMPRESSOR STATIONS MINISTRY OF OIL

SHEET NO.: 7 OF 23

| CODE | ITEM DESCRIPTION | TINIT | OTV | COMMENT |
|--------------|---|-------|----------|---|
| | ELECTRICAL, MECHANICAL & INSTRUMENT | | 112 | |
| 08-7-00-0051 | SPARE PARTS FOR AIR COMPRESSOR. | LOT | 2 | Spare parts for air compressors in |
| 08-7-00-0052 | SPARE PARTS FOR 5 TON , 3 TON O.H. CRANE AT GAS COMPRESSOR STATIONS | LOT | 2 | Spare parts for lifting tranes at gas compressor stations without which renairs cannot be etarted |
| | INSTRUMENTS | | | |
| | REPLACEMENT OF OBSOLETE INSTRUMENTS & CONTROL SYSTEMS INCLIMING: | | | Instrumentation replacements for compressor stations in NOC area. |
| | - VIBRATION MONITORING SYSTEM WITH SENSORS & | SET | 15 | |
| 08-7-00-0053 | - ANTI SURGE CONTROL VALVE FOR ABS COMPRESSOR STATION | NOS. | - | |
| | CONTROL & MEASURING SYSTEMS AT COMPRESSOR STATIONS | LOT | 7 | |
| | MECHANICAL | | | |
| 08-7-00-0054 | SPARE PARTS FOR SOLAR GAS TURBINES AND GAS COMPRESSORS | LOT. | | Repair and maintenance to turbines and coolers at compressor stations in NOC area. |
| 08-7-00-055 | REPAIR OF GAS TURBINE & GAS COMPRESSOR ROTORS FOR GAS COMP. STATIONS (SOLAR GAS TURBINES & MITSUBISHI GAS COMPRESSORS) ABROAD | SET | ∞ | = |
| 9500-00-20 | | LOT. | | 1 |
| 7500-00-7-80 | REPAIR OF SOLAR GAS TURBINE AT GAS COMPRESSOR STATIONS(AB-4 AND AB-5) ABROAD | SET | 2 | = |
| 08-7-00-0058 | LUB OIL COOLERS FOR GAS COMPRESSOR STATIONS(AB4, AB5 & AB7) | NOS. | ဧ | = |

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SHEET NO.: 8 OF 23

MINISTRY OF OIL ESTABLISHMENT NAME: NORTH OIL COMPANY LOCATION: PUMPING STATIONS

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|------|-----|--|
| | INSTRUMENT | | | |
| 08-7-00-0059 | REPLACEMENT OF CONTROL SYSTEM FOR RUSTON GAS TURBINES AT K1 & K3 PUMPING STATIONS | SET | 4 | Replacement control systems for gas turbines at pumping stations KI & K3 |
| | MECHANICAL | | | |
| 0900-00-2-80 | REPAIR OF TWO SULZER GAS TURBINE ROTORS ABROAD | SET | 2 | Oversear repair contract for rotors of 2 gas turbines at K3. |
| 08-7-00-0061 | SPARE PARTS FOR G.E.C GAS TURBINE FOR K1 & K-3 PUMPING STATION FOR (8 SETS) OF TURBINES | LOT | & | Spare parts for GEC gas turbines at KI & K3 |

LOCATION: POWER GENERATION PLANTS

| QTY COMMENT | Replacements for power generation plant equipment | Cooling plant electrical spares for cooling towers. |
|------------------|--|--|
| UNIT QTY | SET | SET |
| ITEM DESCRIPTION | BOILER TUBES, SUPPER HEATER & HEAT EXCHANGER TUBES | ELECTRICAL FANS MOTORS & REDUCTION GEAR BOX FOR TWO COOLING TOWERS |
| CODE | 08-7-00-0062 | 08-7-00-0063 |

SHEET NO.: 9 OF 23

MINISTRY OF OIL ESTABLISHMENT NAME: NORTH OIL COMPANY LOCATION: ALL AREA OIL FIELDS PRODUCTION MAINTENANCE &

| | OFGRADING ITEM DESCRIPTION | TINIT | OTV | COMMENT |
|---|--|-------|-----|--|
| A CYPTY TYPY A | O MA | OINT | 117 | COMMENT |
| ACTIVITY NO. (04): KHURMALA DOME FLOW/TRUNK LINES EQUIPMENTS, MANIFO | ACTIVITY NO. (04): KHURMALA DOME PRODUCTION, COMPRISSING:- FLOW/TRUNK LINES ,FITTINGS ,VALVES ,WELL HEAD EQUIPMENTS, MANIFOLDS ,INSTRUMENTSETC. | WELL | 14 | Equipment for well maintenance and connection in Kirkuk region |
| ACTIVITY NO. (05): GAS PRODUCTION MMSCFPD:-HIGH & I ,REDUCING PRESSU SYSTEM ,FLOW LINE INSTRUMENT ETC | ACTIVITY NO. (05): GAS PRODUCTION FROM JAMBUR FIELD OF (200) MMSCFPD:-HIGH & LOW PRESSURE WATER BATH HEATER ,REDUCING PRESSURE EQUIPMENT, FLOW MEASURING SYSTEM ,FLOW LINES , FITTINGS ,VALVES ,PUMPS , ELEC. INSTRUMENTETC | PLANT | 1 | Equipment & spares for repair and maintenance for gas production units at Jambur field |
| ACTIVITY NO. (06): BABA WET CRUDE DEHYDRATORS. & ITREATMENT, BALAN EXCHANGERS, PIPES INSTRUMENTSETC | ACTIVITY NO. (06): BABA WET CRUDE TREATMENT PLANT (250 TH. B/D), DEHYDRATORS. & DESALTERS, EFFLUENT WATER IREATMENT, BALANCE VESSELS, TANKS, HEATERS, HEAT EXCHANGERS, PIPES, FITTINGS, VALVES, PUMPS, ELEC. & INSTRUMENTSETC | TRAIN | w | Equipment for wet crude treatment trains at Baba (no plant at present). |
| ACTIVITY NO. (07): REHABILITATION MECHANICAL, ELEC | ACTIVITY NO. (07): REHABILITATION OF AB-6 COMPRESSOR STATION(MECHANICAL, ELECTRICAL, INSTRUMENT)ETC | LOT. | 4 | Equipment and spares for AB-6 compressor station which has been totally cannibalized. |
| COMPLETION/ RI ELECTRICAL, ME | ON/ REHABILITATION OF SADDAM OIL FIELD (AL, MECHANICAL, INSTRUMENT)ETC | LOT. | 4 | Equipment and spares for repair and completion of surface installations in Saddam field. |
| ACTIVITY NO. (08): JAMBOUR WET CRU DEHYDRATORS & J TREATMENTS, BAL, HEATERS, HEAT EX | ACTIVITY NO. (08): JAMBOUR WET CRUDE OIL TREATMENT PLANT (10 TH B/D) BEHYDRATORS & DESALTERS UNIT ,EFFLUENT WATER TREATMENTS, BALANCE FESSELS, TANKS, WATER BATH HEATERS, HEAT EXCHANGERS, PIPES, FITTINGS, VALVES, PUMPS, ELECTRICAL INSTRUMENTSETC | TRAIN | 1 | Equipment for wet crude treatment train at Jambour. |
| REHABILITATIO FITTING, FLANG | FATION OF K3 STATION, COMPRISING: VALVES, LANGESETC | TOT. | 5 | Maintenance and repairs to K3 station. |
| ACTIVITY NO. (09): PRODUCTION REQUI | <u>ACTIVITY NO. (09):</u> PRODUCTION REQUIREMENTS FOR HAMRIN FIELD | LOT | 10 | Equipment for drilling extra wells at Hamrin field, if required. |
| FLOATING ROOFOR OPERATION | ROOF TANKS 20000 M3 WITH ALL ACCESSORIES ATIONAL FLEXIBILITY | NOS. | 2 | Equipment and material for building 2 * 20,000 cubic meter tanks in Kirkuk area. |
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| | COMMENT | | Electrical materials and equipment for workshops | Ξ | Specialized equipment for repair and maintenance of street lighting | | Mechanical spares and equipment for site survey equipment | = |
|--|------------------|------------|--|---|---|--------------|--|--------------------------------------|
| 10 OF 23 | QTY | | 20 | 7 | 2 | | 1 | 35 |
| SHEET NO.: 10 OF 23 RKSHOPS | UNIT | | ITEM | ITEM | ITEM | | SET | SET |
| ORTH OIL COMPANY LL AREAS ATERIALS, EQUIPMENT FOR WO | ITEM DESCRIPTION | ELECTRICAL | | MOBILE WORKSHOP INCLUDING ALL ACCESSORIES , EQUIPMENT, TOOLS, MEASURING TOOLS, DIESEL GENERATORETC (ON TRUCK) | EQUIPMENT FOR OVER HEAD AND STREET LAMPS MAINTENANCE (ON TRUCK) | PLANT SURVEY | MOBILE WORKSHOP CUSTOMIZED FOR PLANT SURVEY CONTAINING X- RAY UNIT, DEVELOPING UNIT, DIESEL GENERATOR & ACCESSORIES) ON TRACK) | PLANT SURVEY EQUIPMENT & CONSUMABLES |
| MINISTRY OF OIL ESTABLISHMENT NAME: N LOCATION: AI | CODE | | 08-7-00-0073 | 08-7-00-0074 | 08-7-00-0075 | | 9200-00-2-80 | 08-7-00-0077 |

SHEET NO.: 11 OF 23

MINISTRY OF OIL ESTABLISHMENT NAME: NORTH OIL COMPANY LOCATION: ALL AREAS MATERIALS, EQUIPMENT FOR WORKSHOPS

| INI | | pment for ms. | uipment rkkitops for ce site plants. | | | | |
|------------------|------------|--|---|---|--|--------------|---|
| COMMENT | | Replacement equipment for obsolete items. | Material and equipment requirements for workshops for repair and maintenance site plants. | . | = | = | = |
| QTY | | 40 | 20 | 10 | 4 | 1 | • |
| UNIT | | NOS. | NOS. | LOT | SET | LOT. | The A better |
| ITEM DESCRIPTION | MECHANICAL | VARIOUS APPARATUS & EQUIPMENT SUCH AS LEAK DETEC. / CHARGING TOOLS, VACUUM PUMP, ACID PUMPS ETC. | AS: AS: AS: AS: AS: CUTTING ELECTRICAL WELDING HYDRAULIC PIPE BENDING ROLLS HYDRAULIC PIPE BENDING AIR HYDRO POWER UNIT (FOR TESTING) HYDRAULIC PRESS RECIPROCATING TESTING PUMPS (FOR PIPING) TESTING) | VARIOUS TOOLS FOR GENERAL MAINTENANCE AND REPAIR SUCH AS: (EXTRACTORS, DRILLS, DICES, CUTTERS, CRUCIBLEETC) AND SPARES FOR SERVICE GRINDING MACHINE | MOBILE WORKSHOP INCLUDING ALL ACCESSORIES EQUIPMENT, TOOLS, MEASURING EQUIPMENT & TOOLS, ELECTRIC WELDING, MACHINE DIESEL GENERATORETC (ON TRUCK) TWO TO BE CUSTOMIZED FOR MECHANICAL MAINTENANCE, THE OTHER FOR COMMUNICATIONS AND ONE FOR CONTROL MAINTENACE | | A STANDER OF ANT WITH OTHER CAPACITY OF SO KG/HR OF |
| CODE | | 08-7-00-0078 | 08-7-00-0079 | 08-7-00-0080 | 08-7-00-0081 | 08-7-00-0082 | |

MINISTRY OF OIL
ESTABLISHMENT NAME: NORTH OIL COMPANY

SHEET NO.: 12 OF 23

LOCATION: ALL AREAS

FLOW LINES, WELL HEAD ACCESSORIES FOR CONNECTING 46 OIL WELLS

ACTIVITY NO. (10):

| UNIT QTY COMMENT | ECTING WELLS 46 connection of 46 wells in North |
|------------------|---|
| ITEM DESCRIPTION | FLOW LINES, WELL HEAD ACCESSORIES FOR CONNECTING OF OIL WELLS |
| CODE | 08-7-10-0084 |

LOCATION: EAST BAGHDAD AREA

SUPPLY OF FUEL TO ELECTRICITY GENERATING PLANTS FROM EAST BAGHDAD STATION

ACTIVITY NO. (11):

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|----------------|--|------|-----|--|
| 08-7-11-0085 | LINE PIPES WITH FITTING AND WRAPPING MATERIALS AND VALVES | ITEM | 55 | Equipment to enable fuel delivery to power station at East Baghdad. |
| 08-7-11-0086 | 10000 M3 FLOATING ROOF CRUDE OIL TANK COMPLETE WITH ACCESSORIES | SET | - | Third storage tank, for blending, for more efficent fuel supply. |
| 08-7-11-0087 | CRUDE OIL ELECTRIC DRIVEN PUMPS WITH SPARE PARTS | SET | 4 | Equipment to enable fuel delivery to power station at East Barhdad. |
| , 08-7-11-0088 | CRUDE OIL /DRY GAS METERING AND DEPRESSURIZATION STATIONS WITH SPARE PARTS | SET | 4 | -11 |
| 08-7-11-0089 | PROCESS CONTROL AND INSTRUMENTATIONS | SET | 2 | = |
| 08-7-11-0090 | ELECTRICAL EQUIPMENT AND CABLES | LOT | 1 | u |

ESTABLISHMENT NAME: NORTH OIL COMPANY LOCATION: ALL AREAS MINISTRY OF OIL

SHEET NO.: 13 OF 23

| IALS |
|-------|
| IATER |
| RAL N |
| GENE |
| |

MINISTRY OF OIL

SHEET NO: 14 OF 23

ESTABLISHMENT NAME: NORTH OIL COMPANY LOCATION: ALL AREAS TELE COMMUNICATION

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|------|-----|--|
| | EXCHANGES AND TELEPHONE NETWORKS | | | |
| 08-7-00-0100 | ELECTRONIC PABX 200 EXTENSION WITH ALL ACCESSORIES FOR AIN ZALAH, JAMBOUR SOUTH AND K/2 STATIONS.(REPLACING OBSOLETE PABXES) | SET | ю | Replacement communications equipment for control and management of all areas in North region |
| 08-7-00-0101 | ELECTRONIC PABX 500 EXTENSION WITH ALL ACCESSORIES (REPLACING OBSOLETE PABX IN K/3 ST.) | SET | 1 | - |
| 08-7-00-0102 | ARMORED TELEPHONE CABLE 300 PAIRS (0.8 mm) WITH SPLICES AND ACCESSORIES (TO REPLACE 50 YEAR OLD CABLES FROM BABA TO ARRAPHA AND K1) | KM | 20 | E. |
| 08-7-00-0103 | DIGITAL PAIR GAIN UNITS(FOR EXTENDING TELEPHONE SERVICE IN AREAS WITH LIMITED NETWORK) | NOS. | 100 | Ξ |
| 08-7-00-0104 | DIGITAL CABLE FAULT LOCATOR | SET | T | # |
| | PIPELINES & DRILLING TELECOMMUNICATION SYSTEMS | | | |
| 08-7-00-0105 | SPARE PARTS FOR TELECOM EQUIPMENT IN ITP | LOT | 1 | Spares and equipment for communication requirements of drilling and pipeline, including ITP, operations. |
| 08-7-00-0106 | SET OF Ni-Cd BATTERIES 48 VDC 350 A,H & 750 A .H FOR WESTERN PIPE-LINE TELECOM SYSTEM | SET | 16 | 2 |
| 08-7-00-0107 | TELECOM LINKS FOR DRILLING, SINGLE CHANNEL RADIO LINK WITH ALL ACCESSORIES FOR EXPANDED DRILLING OPERATIONS | NOS. | 15 | - |
| 08-7-00-0108 | AIR-CONDITIONED CONTAINER FOR HOUSING DRILLING TELECOM EQUIPMENT | NOS. | 10 | = |
| 08-7-00-0109 | PORTABLE MAST (100) FT HIGH TO CARRY ANTENNAS OF RADIO EQUIPMENT | NOS. | 10 | Ξ |
| 08-7-00-0110 | PASSIVE COOLING CONTAINER FOR HOUSING RADIO EQUIPMENT IN INJANA AND NAFTZHANA AREA | SET | 2 | = |

MINISTRY OF OIL ESTABLISHMENT NAME: NORTH OIL COMPANY LOCATION: ALL NOC FIELDS

SHEET NO.: 15 OF 23

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|------|--|
| 08-7-00-0111 | RAPID INTERVENTION FIRE FIGHTING TRUCK WITH RECOMMENDED SPARE PARTS. | NOS. | 4 | Safety and fire-fighting equipment and consumables |
| 08-7-00-0112 | FIRE FIGHTING EXTINGUISHERS WITH RECOMMENDED SPARE PARTS (TYPE: CO2, POWDER & FOOM) | NOS. | 1300 | = |
| 08-7-00-0113 | CO2 REFILLING MACHINE WITH RECOMMENDED SPARE PARTS | NOS. | 2 | E |
| 08-7-00-0114 | SPARE PARTS FOR BREATHING APPARATUS TYPE S.A.V.E.R MODEL C 8600 (VALVES, SEATS, GAUGES, HOSES, BAGS, SPANNERETC) | NOS. | 2000 | 2 |
| 08-7-00-0115 | FIREMAN WEAR (COVER ALL) | NOS. | 1000 | 2 |
| 08-7-00-0116 | FIRE BRIGADE SAFETY BOOTS | PAIR | 200 | = |
| | | | | |

LOCATION: ALL NOC FIELDS

| CODE | ITEM DESCRIPTION | UNIT | UNIT QTY | COMMENT |
|--------------|---|------|------------|---|
| 08-7-00-0117 | SPARE PARTS FOR ROSENBUER UNIVERSAL FIRE FIGHTING TRUCK TYPE ULF 7000/1000 UK ON MB LK 2624/40-CHASSIS No. 343003-14-903252:- (IMPELLER, DIFFUSER, THROTTLE CONTROL AND CABLES, CYLINDERS, VALVES AND ACCESSORIES, BEACON, HORMETC) | NOS. | 800 | Safety and firefighting equipment and spares |
| 08-7-00-0118 | REPLACEMENT OF HALON 1211 USED FOR FIRE FIGHTING SYSTEM OF FLOATING ROOF TANKS:- OUTDOOR F.F. GAS | KG | 099 | Fire fighting consumables and equipment |
| | - NOZZLES - CONTAINER | NOS. | 933 | : : |

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MINISTRY OF OIL

SHEET NO.: 16 OF 23

ESTABLISHMENT NAME: NORTH OIL COMPANY LOCATION: EAST BAGHDAD FIELD VARIOUS EQUIPMENT

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|-----|--|
| 08-7-00-0119 | STARTING MOTOR COMPLETE UNIT FOR FIRE FIGHTING DIESEL ENGINE PUMP | NOS. | - | Fire fighting equipment |
| 08-7-00-0120 | SPARE PARTS FOR CONTROL VALVE (DIAPHRAGMSETC.) | NOS. | 10 | Equipment and spares for repair requirements in East Baghdad field |
| 08-7-00-0121 | SPARE PARTS FOR PLC, MODEL GEM 80, TYPE 353 (DRIVER, POWER SUPPLY, BATTRESETC.) | NOS. | 20 | 1 |
| 08-7-00-0122 | SPARE PARTS FOR MICROPROSSOR CONTROL UNIT (SERIES 3 C P D) | NOS. | 20 | = |
| 08-7-00-0123 | SPARE PARTS FOR 11 KV S.G BOARD, TYPE. YMV 2/x24/QM20 VACCUM S.G 630 A | NOS. | 10 | = |
| 08-7-00-0124 | SPARES FOR AMERADA DOWN HOLE GAUGE (RPG-3) | NOS. | 16 | = |
| 08-7-00-0125 | SPARES FOR CENTRIFUGAL COMPRESSOR MODEL MGG – 433 (SEAL REPAIR KIT, O-RINGETC.) | SET | 4 | = |
| 08-7-00-0126 | SPARE PARTS FOR CONTROL SYSTEM (POWER SUPPLIES, BATTERIES, CARDS ETC.) | NOS. | 100 | 2 |
| 08-7-00-0127 | FLAPPER AND NOZZLE KIT FOR CONTROLLERS TYPE CAMPO SERIES | NOS. | | - |
| 08-7-00-0128 | MECHANICAL OPENER FOR 3" VALVE OF HYDRAULIC ACTUATORS MODEL (C) | NOS. | 1 | 4 |

ESTABLISHMENT NAME: NORTH OIL COMPANY LOCATION: NOC FIELDS MINISTRY OF OIL

SHEET NO.: 17 OF 23

| CODE | ITEM DESCRIPTION | UNIT | UNIT QTY | COMMENT |
|--------------|--|------|----------|--|
| 08-7-00-0129 | HYDRAULIC TEST PUMP DRIVEN BY ELECTRIC MOTOR, DISCHARGE PRESSURE UP TO 5000 PSI WITH ALL REQUIRED FITTINGS AND FLEXIBLE HOSES OF 3/4" SIZE & LENGTH OF 40 M. WITH SPARE PARTS. | NOS. | 7 | Hydraulic testing pumps for North region to test lines etc for tightness. |

LOCATION: AIN ZALAH / SUFYA FIELDS

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|-----|---|
| 08-7-00-0130 | SPARE PARTS FOR CONTROL ROOM:- (PROCESS CONTROLLERS, INDICATORS, VARIOUS CARDS, INSTRUMENTS, POWER UNITS, LAMPSETC.) | NOS. | 300 | Electrical and mechanical spares for Ain Zulah and Sufya fields. |
| 08-7-00-0131 | SPARE PARTS FOR FLOW TANK TK-102 A/B AND TEST TANK TK-101:-(SWITCHES, TRANSMITTERS, INDICATORSETC.) | NOS. | 20 | 41 |
| 08-7-00-0132 | SPARE PARTS FOR SEPARATOR & DEHYDRATOR S101/S102:- (COUNTERS, TRANSMITTERSETC) | NOS. | 12 | |
| 08-7-00-0133 | SPARE PARTS FOR WATER SOFTENING UNIT(W201):- (DISTRIBUTORS, METERS, DIAPHRAMSETC) | NOS. | 20 | = |
| 08-7-00-0134 | SPARES FOR WATER PUMPING STATION :- (PUMPS, CIRCUIT BREAKERS, PROTECTION UNITETC.) | NOS. | 5 | 2 |
| 08-7-00-0135 | SPARE PARTS FOR REDA ELECT. SUBMERSIBLE :- (SWITCHBOARDS, PUMPSETC.) | NOS. | 3 | = |

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ESTABLISHMENT NAME: NORTH OIL COMPANY LOCATION: ITP / LINE MINISTRY OF OIL

SHEET NO.: 18 OF 23

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|--------------------|---------------|--|
| 08-7-00-0136 | SPARE PARTS FOR HEAVY DUTY DIESEL GENERATOR ENGINE TYPE - BF 12 M 176 :- (WATER PUMP SEALSETC) | NOS. | 15 | Assorted spare parts for use on ITP pipeline system |
| 08-7-00-0137 | SPARE PARTS FOR AUXILIARY LUB OIL PUMP INSTALLED ON MAIN PUMP ZMI 480/08 & 480/09:- | NOS. | 15 | E |
| 08-7-00-0138 | SPARE PARTS FOR SLOP PUMP TYPE (PWZV 32-200):- (SEALS BEARINGSETC) | NOS. | 15 | |
| 08-7-00-0139 | SPARE PARTS FOR DETROIT DIESEL ENGINE TYPE 08 VF:- (FILTERS, PUMPS, CYLINDER, BEARING, RINGSETC.) | NOS. SET | 16 2 | : |
| 08-7-00-0140 | PARE PARTS BEVEL GEAR BOX TYPE IB7 RATIOR 6:1 & IB5 RATIO 4:1 :- (BEARINGS, WASHERS, GEARS, PINIONS, BUSHES ETC) | NOS. | 150 | 2 |
| 08-7-00-0141 | SPARE PARTS FOR PERKINS DIESEL ENG. GEN. TYPE : 46215 (OVERHAUL KIT, FILTERS, BELTS, THERMOSTAT, INJECTORS, PUMPS, CYLINDER RINGS, BEARINGS ETC) | NOS. SET KIT | 40 10 2 | 2 |
| 08-7-00-0142 | SPARE PARTS FOR MWM DIESEL FIRE ENG TYPE TBD 234 V 12:- (OVERHAUL KIT, FILTERS, BELTS, THERMOSTAT, INJECTORS, PUMPS, CYLINDER RINGS, BEARINGS ETC) | NOS. SET | 55 10 | = |
| 08-7-00-0143 | AIR COMPRESSOR, COMPLETE UNIT FOR STARTING FIRE DIESEL ENGINE MWM WITH SPARES | SET | 2 | £ |
| 08-7-00-0144 | | NOS. | 2 | = |
| 08-7-00-0145 | GEAR BOX, COMPLETE UNIT, INSTALLED ON GROVE BALL VALVE | NOS. | 4 | = |

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ESTABLISHMENT NAME: NORTH OIL COMPANY LOCATION: K-3 PUMPING STATION MINISTRY OF OIL

SHEET NO.: 19 OF 23

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMIMENT |
|--------------|---|--------------|-----------|---|
| 08-7-00-0146 | GEAR BOX TYPE 1000 , COMPLETE UNIT FOR COOLING TOWER SERIES 8600 | NOS. | - | Spares and equipment for repair and maintenance of K3 pumping station |
| 08-7-00-0147 | SPARE PARTS FOR MATHER AND PLAT PUMP (6"x7");- (IMPELLERS, SLEEVES, VALVES, BUSHES, RINGS ETC) | NOS. | 30 | = |
| 08-7-00-0148 | SPARE PARTS FOR MATHER AND PLAT PUMP(4"x6"):- IMPELLERS, SLEEVES, VALVES, BUSHES, RINGS ETC) | NOS. | 16 | = |
| 08-7-00-0149 | AUDCO PLUG VALVE 12" x 600 & AUDCO VALVE STICK LUBRICANTS (A, B, C, D, E, F, G) | NOS. TINS | 400 | = |
| 08-7-00-0150 | SPARE PARTS FOR BROOM & WADE AIR COMPRESSOR :- (VALVES, GUIDES, SPRINGS, O-RINGS, LANTERNS ETC) | NOS. | 80 | = |
| 08-7-00-0151 | SPARE PARTS FOR MEDIVAN CENTRIFUGAL PUMP:- (THRUST PADS, GLANDS, RINGS, BUSHESETC) | NOS. SET | 120 12 | = |

MINISTRY OF OIL ESTABLISHMENT NAME: NORTH OIL COMPANY LOCATION: K-3 AND T.1 PUMPING STATION

SHEET NO.: 20 OF 23

| CODE | ITEM DESCRIPTION | UNIT | OTY | COMMENT |
|--------------|---|------|-----|---|
| 08-7-00-0152 | 12 " RUBBER TUBE FOR GROVE FLEXFLO RELIEFE VALVE | NOS. | 3 | General maintenance and repair requirements. |
| 08-7-00-0153 | JOHN CRANE MECHANICAL SEAL COMPLETE UNIT FOR PLANTY PUMP W 80 x 45 | NOS. | 100 | = |
| 08-7-00-0154 | LOADING RUBBER REINFORCED HOSE WITH COUPLING | NOS. | 200 | = |
| 08-7-00-0155 | SPARES FOR CARRIER AIR CONDITIONING UNIT FOR CONTROL ROOM:-(COMPRESSORS, TRANSFORMER, CONTRACTOR, FAN MOTORS, THERMOSTAT, CONTROL SWITCHESETC.) | NOS. | 9 | Spares for air conditioning at K3/T1 pumping stations |

LOCATION: T.1 PUMPING STATION

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|-----|-------------------------------|
| | SPARE PARTS FOR KSB PUMP WKF 100/10:- | NOS. | 80 | General mechanical spares for |
| 700 700 0156 | (COMPLETE BEARING, HOUSING & RESERVOIR, IMPELLER, | SET | 15 | pumping station. |
| 00-7-00 | SHAFT, DIFFUSER, SLEEVE, RINGS, BUSHES, | | | |
| | CIRCELIPSETC.) | | | |
| | SPARE PARTS FOR 20"/20" CSBH MEDIVAN CENT. | | | ** |
| 08-7-00-0157 | OIL PUMP :- (SEALS SEPARATOR THRUST PADS, SLEEVES, | NOS. | 12 | |
| | RINGSETC) | | | |
| | SPARE PARTS FOR BROOM & WADE AIR COMPRESSOR | | , | = |
| 08-7-00-0158 | TYPE BWZD:-(VALVES, WATER PUMPS, COUBLINGS, RINGS, | NOS. | 09 | |
| | BELTSETC.) | **** | | |

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MINISTRY OF OIL ESTABLISHMENT NAME: NORTH OIL COMPANY LOCATION: ALL AREAS

SHEET NO: 21 OF 23

| 08-7-00-0159 MOBILE CRANES: 10 - 150 TONS 08-7-00-0160 FORKLIFTS: 3- 10 TONS 08-7-00-0161 SIDE BOOMS 08-7-00-0162 BULLDOZERS & GADERS 08-7-00-0163 DUMPER. 08-7-00-0164 WELDING MACHINE. 08-7-00-0165 WHEEL & BACKHOE LOADERS & EXCAVA CRAWLER) 08-7-00-0167 ROLLER (TYRES STEEL) 08-7-00-0169 TIP TRUCK. 08-7-00-0170 LORRY WITH CRANE OF 2 TON. 08-7-00-0171 MOBILE WORKSHOP (MECHANICAL). 08-7-00-0171 FUEL & WATER TANK TRUCK 12000 LTR. | NOT THE | NOS. | 20 20 | Heavy couloment and transport | _ |
|--|-------------------------------------|------|-------|-------------------------------|-----|
| MOBILE CRASIDE BOOMS SIDE BOOMS BULLDOZER DUMPER. MOBILE AIR WHEEL & B CRAWLER) ROLLER (TY MOBILE PLA TIP TRUCK. LORRY WITH MOBILE WITH | | CZ | 20 | Heavy countent and transport | _ |
| FORKLIFTS: SIDE BOOMS BULLDOZER BULLDOZER MOBILE AIR WHEEL & B CRAWLER) ROLLER (TY MOBILE PLA TIP TRUCK. TORRY WITI LORRY WITI LORRY WITI | |) | | for use throughout North area | |
| SIDE BOOMS BULLDOZER BULLDOZER DUMPER. MOBILE AIR WHEEL & B CRAWLER) ROLLER (TY MOBILE PLA TIP TRUCK. TORRY WITI LORRY WITI LORRY WITI HOBILE WO | | NOS. | 15 | = | |
| BULLDOZER DUMPER. MOBILE AIR WHEEL & B CRAWLER) ROLLER (TY MOBILE PLA TIP TRUCK. TORRY WITI LORRY WITI MOBILE WO MOBILE WO | | NOS. | 10 | - | |
| MOBILE AIR WELDING M WELDING M WHEEL & B CRAWLER) ROLLER (TY MOBILE PLA TIP TRUCK. TORRY WITT LORRY WITT MOBILE WO | | NOS. | 12 | = | |
| MOBILE AIR WELDING M WHEEL & B CRAWLER) ROLLER (TY MOBILE PLA TIP TRUCK. LORRY WITI MOBILE WO MOBILE WO | | NOS. | 10 | = | |
| WELDING M WHEEL & B CRAWLER) ROLLER (TY MOBILE PLA TIP TRUCK. LORRY WITI MOBILE WO MOBILE WO | | NOS. | 10 | - | |
| WHEEL & B CRAWLER) ROLLER (TY MOBILE PLA TIP TRUCK. LORRY WITI MOBILE WO HUEL & WAT | | NOS. | 20 | - | |
| ROLLER (TY MOBILE PLA TIP TRUCK. LORRY WITI MOBILE WO FUEL & WAI | ACKHOE LOADERS & EXCAVATOR(WHEEL & | NOS. | 15 | = | |
| MOBILE PLA TIP TRUCK. LORRY WITI MOBILE WO FUEL & WAI | | NOS. | 4 | - | |
| TIP TRUCK. LORRY WIT MOBILE WO FUEL & WAI | | NOS. | 4 | - | |
| LORRY WITH MOBILE WO FUEL & WAT | | NOS. | 10 | - | |
| MOBILE WO FUEL & WAT | | NOS. | 9 | - | |
| FUEL & WAT | CAL). | NOS. | 4 | 4 | 22- |
| | 1000 LTR. | NOS. | 10 | = | |
| 08-7-00-0173 CARGO TRUCKS 8-10 TON. | | NOS. | 10 | - | |
| | | NOS. | 4 | 11 | |
| 08-7-00-0175 GARBAGE CAR | | NOS. | 9 | - | |
| 08-7-00-0176 RECOVERY VEHICLE 6x4 & 4x2 | | NOS. | 10 | - | |
| 08-7-00-0177 TRACTOR 4x2 WITH SEMI-LOADER+ TRACTOR 6x4. | ER+ TRACTOR 6x4. | NOS. | 26 | - | |
| | ACTOR 4x2 KINGPIN 2.5". | NOS. | 3 | 11 | |
| 08-7-00-0179 CEMENT TRANSPORTER VEHICLE WITH TRACTOR 6x4. | LE WITH TRACTOR 6x4. | NOS. | 10 | 2 | |
| | | NOS. | 4 | = | |
| | | NOS. | 2 | = . | |
| 08-7-00-0182 BUS (12), (25) &(45) SEATERS. | | NOS. | 136 | ı | |
| PICK-UP DO | ION WAGON. | NOS. | 125 | н | |
| 08-7-00-0184 HYDRAULIC PRESS 60 TON CAP. | | NOS. | 7 | 14 | |

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MINISTRY OF OIL ESTABLISHMENT NAME: NORTH OIL COMPANY LOCATION: ALL AREAS

SHEET NO: 22 OF 23

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|--------------|---|
| 08-7-00-0185 | TWO STAGE AIR COMPRESSOR 7.5 KW. | NOS. | & | General spare parts and equipment for repair and maintenance in North area. |
| 08-7-00-0186 | LATHE MACHINE 76 & 100 MM. | NOS. | 7 | = |
| 08-7-00-0187 | LUBRICATING UNIT | NOS. | 2 | = |
| 08-7-00-0188 | PALLET TRUCK ELECTRIC POWERED 2T. CAP. | NOS. | 3 | = |
| 08-7-00-0189 | FORKLIFT TRUCK ELECTRIC POWERED 1.25 T. CAP. | NOS. | 9 . | Ξ |
| 08-7-00-0190 | TRAILER, LOAD CAP. 2T. FOR STORES USE. | NOS. | 30 | = |
| 08-7-00-0191 | ELECTRIC PLATFORM TRUCK. | NOS. | 1 | = |
| 08-7-00-0192 | PALLET TRUCK CAP. 2T. | NOS. | 15 | = |
| 08-7-00-0193 | PETROL & GAS OIL PUMP. | NOS. | 16 | = |
| 08-7-00-0194 | CYLINDERS FOR OXYGEN & ACETYENE GAS. | NOS. | 009 | = |
| 08-7-00-0195 | PALLET TRUCK 0.8 T. CAP. | NOS. | 2 | = |
| 08-7-00-0196 | BALANCING MACHINE FOR VEHICLES. | NOS. | . 1 | = |
| 08-7-00-0197 | JACK TROLLEIES(5& 10 TONS) | NOS. | 15 | = |
| 08-7-00-0198 | TYRES VARIOUS SIZES. | NOS. | 2000 | 11 |
| 08-7-00-0199 | SPARE PARTS FOR FIRE FIGHTING. | LOT | 1 | = |

MINISTRY OF OIL ESTABLISHMENT NAME: NORTH OIL COMPANY LOCATION: ALL AREAS

SHEET NO.: 23 OF 23

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|------|-----|---|
| 08-7-00-0200 | EQUIPMENT FOR THE REHABILITATION OF NOC PRINTING PRESS, COMPLETE WITH SPARES & ACCESSORIES | LOT | | Press for preparing technical paperwork for management of area. |
| 08-7-00-0201 | EQUIPMENT FOR COMMISSARIAT FACILITIES(ELECTRIC RANGES & ACCESSORIES, KITCHEN EQUIPMENT, BOILER FOR LAUNDRYETC | LOT | เก | Equipment for staff facilities |

LOCATION: ALL AREAS

| COMMENT | Materials for repair and maintenance of process tanks and cylinders in all North areas. | 2 | = | = | = | * | = | = | = | * | | • | | | | |
|------------------|--|---------------------------|-----------------------|----------------------|-------------------------|------------------------------------|---|-----------------------------------|---------------------------------------|--|-----------------------------------|--|--------------------|---|--|---|
| QTY | | 4230 | 3154 | 144 | 612 | 7320 | 684000 | 2160 | 1000 | 36080 | 55480 | 340 | | 1200 | 720 | 16700 |
| LINI | | TON | TON | TON | TON | MTR. | MTR. | NOS. | NOS. | NOS. | NOS. | NOS. | | NOS. | NOS. | MTR. |
| ITEM DESCRIPTION | MATERIALS REQUIRED FOR THE MAINTENANCE & REVAMPING OF PROCESS TANKS AND VESSELS CONSISTING OF: | - C.S. PLATE A. 516 GR 70 | C.S. PLATE A. 283 GRC | S.S. PLATE TP. 304 L | C.S. PLATE A. 515 GR 70 | C.S. PIPE A – 106 GRB(1/2" – 20") | S.S. TUBE A – 132 TOANGE TP 304(1/4" – 3/4") | - F.S. FLANGE A – 105(1/2" – 20") | F.S. BLIND FLANGE A – 105(1/2" – 20") | - A.S. BOLT A - 139 GR B7(1/4" - 3/8") | - A.S NUT A-194 GR 2H (1/4"-3/8") | C.A.F. &SILID FLAT METAL S.S. & FLAT METAL, IRON | GASKET, DIF. SIZES | - R-B HEAT RESISTANT TEFLON SIZE (5X1000) mm. | - AWS E7018 WELDING ELECTRODE & WELDING WIRE & | FLUX. S.S. & C.S. ANGLE, CHANNEL, ROUND, L-SECTION. |
| CODE | | | | | 08-7-00-0202 | | | | | | | | | | | |

MINISTRY OF OIL

ESTABLISHMENT NAME: SOUTH OIL COMPANY

SHEET NO.: 1 OF 43

LOCATION: ALL FIELDS

DRILLING, COMPLETION & WORKOVER OPERATION

ACTIVITY NO (20):

| | | . n o | | Γ | ł | Τ | | | Ι | <u>_</u> | 5- | | <u> </u> | Ι | | Π | Γ | | |
|----------------|---------|--|--------------------|---------------------------|---|--|----------------------------------|---|---|--|-----------------------------|-------------------------|--------------|----------------------------|---------------------------------------|---|---------------------------------|---|--|
| | COMMENT | Equipment for drilling, completion and workover of wells in South region, in particular N & S Rumailah, Zubair and Luhais. | = | = | 11 | 11 | | 4 | = | = | = | = | = | = | = | = | = | = | |
| | QTY | 200000 | 250 | 250 | 40 | 10 | 20 | 20 | 100 | 400 | 100 | 100 | 7 | 4 | 7 | . 2 | 20 | 200 | 4 |
| | UNIT | MTR. | ITEM | NOS. | ITEM | NOS. | NOS. | ITEM | ITEM | ITEM | ITEM | ITEM | NOS. | NOS. | SET | NOS. | ITEM | ITEM | NOS. |
| ACTIVITY (20): | | CASING AND TUBING | CASING ACCESSORIES | DRILLING BITS AND NOZZLES | DRILLING FLUID MATERIALS & CEMENT ADDITIVES | AIR COMPRESSORS FOR OIL WELL CEMENTING | AGITATORS FOR OIL WELL CEMENTING | WELL-HEAD ACCESSORIES FOR SUBMERSIBLE PUMPS | TOOLS AND EQUIPMENT FOR MAINTENANCE WORK SHOP | EQUIPMENT, MATERIALS & ACCESSORIES INSTRUMENTS FOR CENTRAL & GEOLOGICAL LABORATORIES | GATE VALVES AND ACCESSORIES | PERFORATION ACCESSORIES | MAST TRUCK | WIRE LINE TRUCK WITH CRANE | MULTIPHASE FLOW METER AND ACCESSORIES | MOBILE VACUUM LOADER FOR DISLODGING OF WASTE OIL (VACALL) WITH ACCESSORIES & SPARES | CHIKSANS PIPING AND ACCESSORIES | BOTTOM-HOLE PRESSURE & TEMPERATURE RECORDERS (AMERADA & RT-7) & FLUID SAMPLERS WITH ACCESSORIES | DOWN HOLE SCREEN FOR SAND CONTROL IN WELLS |
| ACII | CODE | 08-7-20-0250 | 08-7-20-0251 | 08-7-20-0252 | 08-7-20-0253 | 08-7-20-0254 | 08-7-20-0255 | 08-7-20-0256 | 08-7-20-0257 | 08-7-20-0258 | 08-7-20-0259 | 08-7-20-0260 | 08-7-20-0261 | 08-7-20-0262 | 08-7-20-0263 | 08-7-20-0264 | 08-7-20-0265 | 08-7-20-0266 | 730 00 7 30 |

MINISTRY OF OIL

ESTABLISHMENT NAME: SOUTH OIL COMPANY

SHEET NO.: 2 OF 43

LOCATION: ALL FIELDS

DRILLING, COMPLETION & WORKOVER OPERATIONS

ACTIVITY NO (21):

| ACITA | (zz) (zz): | | | |
|--------------|---|----------|-----|--|
| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
| 08-7-21-0268 | SLICK-LINE WIRES OF DIFFERENT DELIMITERS. | REEL. | 100 | II. |
| 08-7-21-0269 | SIMULATION SOFTWARE FOR RESERVOIR MANAGEMENT. | ITEM | 10 | Reservoir management improvement |
| 00 7 71 0770 | SERVICE CONTRACT (TURNKEY) FOR DRILLING & | WELL | 100 | External contract for drilling 90 wells in region. |
| 0/70-17-00 | CUMPLE ITON OF 39 WELLS IN NOVILL & SOOTH NOVILLANDS. LUHIS & ZUBEIR FIELDS. | | 707 | , |
| 08-7-21-0271 | SERVICE CONTRACT TO REPAIR (250) GATE VALVES. | NOS. | 250 | Seervice contract for valve repairs |
| | RE-INTERY AND HORIZONTAL DRILLING TO IMPROVE | | • | External contract for drilling |
| 08-7-21-0272 | WELL PRODUCTIVITY (TURN-KEY). | WELL | 4 | horizontal wells to improve recovery |
| 08-7-21-0273 | SERVICE CONTRACT TO PERFORM COMPATIBILITY STUDIES FOR WATER INJECTION | CONTRACT | 1 | External contract |
| 08-7-21-0274 | EQUIPMENT & ACCESSORIES FOR CENTRAL LABORATORY. | ITEM | 100 | Items required for central testing facility |
| 08-7-21-0275 | OPEN & CASED HOLE LOGGING CONTRACT. | CONTRACT | 2 | Contract for hole logging |
| 08-7-21-0276 | OIL WELL LOGGING UNIT | UNIT | 2 | Logging Unit |
| 08-7-21-0277 | OIL WELL LOGGING TOOLS | SET | 7 | Logging tools |

LOCATION: ALL AREAS

SPARE PARTS FOR MAINTENANCE OPERATION

ACTIVITY NO (22):

| TION | (1) (""): | | | |
|--------------|---|------|-----|---|
| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
| 08-7-22-0278 | SPARE PARTS FOR LABORATORY APPARATUS. | ITEM | 100 | Reagents and spares for laboratory operations |
| 08-7-22-0279 | SPARE PARTS FOR LOGGING TRUCKS. | ITEM | 50 | Spares and equipment for maintenance & repair |
| 08-7-22-0280 | SPARE PARTS FOR CEMENTING AND ACIDIZING PUMPING UNITS | ITEM | 400 | = |
| 08-7-22-0281 | SPARE PARTS FOR WATER INJECTION PUMPING UNITS. | ITEM | 300 | 11 |
| 08-7-22-0282 | SPARE PARTS FOR LOGGING TOOLS & SYSTEMS | ITEM | 200 | = |

ESTABLISHMENT NAME: SOUTH OIL COMPANY MINISTRY OF OIL

SHEET NO.: 3 OF 43

LOCATION: ALL FIELDS
DEGASSING STATIONS, OIL STORAGE DEPOTS,
TANK FARMS & PUMPING STATIONS

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|----------------|--|------|------|--|
| 08-7-00-0283 | MOBILE STEAM GENERATOR WITH SPARE AND ACCESSORIES | SET | 2 | Spares and equipment for maintenance and repairs. |
| 08-7-00-0284 | MAINTENANCE EQUIPMENT & ACCESSORIES | ITEM | 100 | = |
| 08-7-00-0285 | SUBMERSIBLE PUMPS | ITEM | 25 | 11 |
| 08-7-00-0286 | PIPE FITTINGS & GASKETS | ITEM | 009 | # |
| 08-7-00-0287 | SAFETY VALVES FOR VESSELS & TANKS | NOS. | 250 | 11 |
| 08-7-00-0288 | VALVES WITH SPARE PARTS | ITEM | 150 | 11 |
| 08-7-00-0389 | PIG LAUNCHING & RECEIVING TRAPS TO BE INSTALLED ON THE NATURAL GAS PIPE LINE FROM SOUTH RUMAILA FIELD TO SLUDGE CATCHER IN KOR AL-ZUBAIR | NOS. | 2 | Replacements for damaged pig traps on gas pipeline. |
| 08-7-00-0590 | SPARE PARTS FOR GAS TURBINE TYPE: MS 1002B | ITEM | 2000 | Spares for turbines on Basrah- |
| 08-7-00-0291 | NICKEL CADMIUM BATTERIES | NOS. | 750 | Spares and equipment for maintenance and repairs. |
| 08-7-00-0292 | SPARE PARTS FOR MOTOR CONTROL CENTERS). | NOS. | 20 | = |
| 08-7-00-0293 | SPARE PARTS TO OVER-HAUL SOLAR GAS TURBINE GENERATOR GSC 1200: EACH SET CONSIST OF 250 ITEMS | SET | 4 | Ξ |
| 08-7-00-0294 | SPARE PARTS FOR SOLAR GAS TURBINE GENERATOR SET GSC 1200-SATURN-800KW | NOS. | 100 | - |
| . 08-7-00-0295 | SPARE PARTS FOR BATTERY CHARGER & DC PANEL | NOS. | 200 | = |
| 08-7-00-0296 | SPARE PARTS FOR ELECTRIC SET ENGINE TYPE D232 V8 | NOS. | 10 | = |

ESTABLISHMENT NAME: SOUTH OIL COMPANY MINISTRY OF OIL

SHEET NO.: 4 OF 43

LOCATION: ALL FIELDS

DEGASSING STATIONS, OIL STORAGE DEPOTS, TANK FARMS & PUMPING STATIONS

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|------|-----|---|
| 08-7-00-0297 | FIRE FIGHTING TRUCK (FOAM) WITH SPARE PARTS. | NOS. | 3 | Fire fighting equipment and consumables. |
| 08-7-00-0298 | RAPID INTERVENTION FIRE VEHICLE WITH SPAR PARTS. | NOS. | 2 | = |
| 08-7-00-0299 | CO2 GENERATORS & FILLING EQUIPMENT | SET | 4 | • |
| 08-7-00-0300 | ANTI-POLLUTION BOOMS & SKIMMERS WITH SPARES. | ITEM | 4 | = |
| 08-7-00-0301 | FOAM GENERATOR & PORTABLE EXTINGUISHER | ITEM | 4 | - |
| 08-7-00-0302 | PORTABLE GAS DETECTORS (H2S-FLAMMABLE-02) | NOS. | 20 | - |
| 08-7-00-0303 | RESPIRATORY EQUIPMENT | ITEM | œ | - |
| 08-7-00-0304 | PERSONAL SAFETY DRESSING | ITEM | 9 | = |
| 08-7-00-0305 | LANDING VALVES & HOSES | NOS. | 009 | = |
| 08-7-00-0306 | TRI ETHYLENE GLYGOL (TEG) | TON | 200 | Gas dehydration consumable |
| 08-7-00-0307 | WATER TREATMENT CHEMICALS | TON | 200 | Consumables and testing equipment for water injection treatment |
| 08-7-00-0308 | LAB CHEMICALS FOR WATER INJECTION | ITEM | 100 | |
| 08-7-00-0309 | CHEMICAL TESTING APPARATUS FOR WATER INJECTION | ITEM | 100 | 1 |
| 08-7-00-0310 | WELL POTENTIAL TESTING SKIDS | SET | 9 | Spares and equipment for maintenance and repairs. |
| 08-7-00-0311 | WELL HEAD EQUIPMENT FOR (H2S) SERVICE | ITEM | 100 | 1 |
| 08-7-00-0312 | WATER INJECTION WELL, HEAD EQUIPMENT | ITEM | 100 | = |
| 08-7-00-0313 | SAND SUCKER MOBILE TRUCK WITH SPARE PARTS AND ACCESSORIES | SET | 2 | = |

SHEET NO.: 5 OF 43

MINISTRY OF OIL ESTABLISHMENT NAME: SOUTH OIL COMPANY

LOCATION: ZUBAIR, NORTH & SOUTH RUMAILA MAINTENANCE OF PRODUCTION STATIONS (DEGASSING)

| COMMENT | Repair and maintenance of water pumps | a | Replacement pump for Qurainat. | Spares for S Rumailah | Spares for S Rumailah | Spares for N Rumailah | = | = | = | Spares for desalting pumps | Spares for N Rumailah | = | = | = | New pumps for control of effluent water at N & S Rumailah | Requirement for South area. |
|------------------|--|--|---|--|--|--|--|--|--|---|---|---|--|---|--|--|
| QTY | 44 | 34 | 4 | 130 | 20 | 36 | 4 | 42 | 16 | 65 | 22 | 30 | 48 | 120 | 4 | - |
| UNIT | ITEM | ITEM | ITEM | ITEM | ITEM | ITEM | ITEM | ITEM | ITEM | ITEM | ITEM | ITEM | ITEM | ITEM | ITEM | ITEM |
| ITEM DESCRIPTION | PUMPS & SPARE PARTS FOR DESALTER SALTY WATER PUMPS | PUMPS & SPARE PARTS FOR DESALTER FRESH WATER PUMPS | COMPLETE MATHER & PLATT CENTRIFUGAL PUMP WITH SKID, INSTRUMENTS, FOUNDATION BLOTS & ALL OTHER ACCESSORIES & SPARE PARTS SERVICE / CRUDE OIL | SPARE PARTS FOR RUSTING GAS TURBINES TA-1750 | SPARE PARTS FOR BYRON AND JACKSON VERTICAL CENTRIFUGAL PUMPS | PUMPS & SPARE PARTS FOR FIRE FIGHTING PUMPS USSR | AIR FILTERS FOR SOLAR CENTAUR TURBO GENERATORS MODEL GCI-CB-ID | SPARE PARTS FOR CENTAUR TURBINE - GENERATORS MODEL GCI-CB-ID | PUMPS & SPARE PARTS FOR WATER JOCKEY PUMPS | PUMPS & SPARE PARTS FOR CENTRIFUGAL PUMPS | PUMPS & SPARE PARTS FOR FIRE FIGHTING PUMPS | PUMPS & SPARE PARTS FOR S.P.P. FIRE WATER PUMPS | SPARE PARTS FOR AIR COMPRESSOR BROOM WADE MODEL: V 150 DA | SPARE PARTS FOR BROOM & WADE COMPRESSORS TYPE: V 200 DA | SKID MOUNTED HORIZONTAL CENTRIFUGAL PUMP C/W ELECT. MOTOR TO BE USED FOR PUMPING SALT WATER WITH 250 GRALITRE SALT CONTENT (SPECIFIC GRAVITY 1.15) AND SPARE PARTS | SKID MOUNTED HEAVY DUTY OIL FREE AIR COMPRESSORS (12 NOS.) |
| CODE | 08-7-00-0314 | 08-7-00-0315 | 08-7-00-0316 | 08-7-00-0317 | 08-7-00-0318 | 08-7-00-0319 | 08-7-00-0320 | .08-7-00-0321 | 08-7-00-0322 | 08-7-00-0323 | 08-7-00-0324 | 08-7-00-0325 | 08-7-00-0326 | . 08-7-00-0327 | 08-7-00-0328 | 08-7-00-0329 |

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MINISTRY OF OIL ESTABLISHMENT NAME: SOUTH OIL COMPANY LOCATION: NORTH & SOUTH RUMAILA (GAS COMPRESSION STATIONS)

SHEET NO.: 6 OF 43

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|------|-----|--|
| 08-7-00-0330 | HEAT EXCHANGER & SPARE PARTS FOR HEAT EXCHANGER AIR COOLED GAS COOLERS S/N 48621 ITEM NO. 2204 EA3 | ITEM | 20 | Equipment and spares for gas compressor stations in N & S Rumailah |
| 08-7-00-0331 | COOLERS & SPARE PARTS FOR AIR COOLED NATURAL GAS COOLERS ITEM NO. E-611, E-811 | ITEM | 110 | - |
| 08-7-00-0332 | PUMPS & SPARE PARTS FOR GLYCOL TRANSFER PUMPS PUMPS SIZE & TYPE: 1 ½ X 2 X 9 VCM CAPACITY: 4 M³/H | ITEM | 30 | 1 |
| 08-7-00-0333 | COOLERS & SPARE PARTS FOR GAZ COOLERS USED IN SOLAR CENTAUR TURBO COMPRESSORS MODEL: CS 4000 | ITEM | 9 | = |
| 08-7-00-0334 | SPARE PARTS FOR CENTRIFUGAL COMPRESSORS | ITEM | 20 | ** |
| 08-7-00-0335 | SPARE PARTS FOR NOUVO PIGNONE GAS TURBINES MS 1002B. | ITEM | 06 | - |
| 08-7-00-0336 | VALVE ACTUATORS AND SPARE PARTS FOR VALVES ACTUATORS | ITEM | 110 | = |
| 08-7-00-0337 | SPARE PARTS FOR BOOSTER BLOWERS | ITEM | 80 | 11 |

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MINISTRY OF OIL

SHEET NO.: 7 OF 43

ESTABLISHMENT NAME: SOUTH OIL COMPANY

LOCATION: ALL DEPOTS (OIL STORAGE DEPOTS, TANK FARMS & PUMP STATION)

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|------|-----|---|
| 08-7-00-0338 | SPARE PARTS FOR GAS TURBINES TYPE: FR 5002 | ITEM | 08 | Equipment and spares for maintenance and repair in depots, tansk farms and pumping stations |
| 08-7-00-0339 | PUMPS & SPARE PARTS FOR CENTRIFUGAL PUMPS | TEM | 36 | = |
| 08-7-00-0340 | PUMPS & SPARE PARTS FOR CENTRIFUGAL PUMPS 12 LN 21 | ITEM | 40 | 2 |
| 08-7-00-0341 | PUMPS & SPARE PARTS FOR OILY WATER PUMPS RV 125/315 | ITEM | 40 | 2- |
| 08-7-00-0342 | SPARE PARTS FOR MAIN PUMPS TYPE: MLHC 600 X 500 Q | ITEM | 70 | = |
| 08-7-00-0343 | SPARE PARTS FOR GEC GAS TURBINES EASI | ITEM | 200 | - |
| 08-7-00-0344 | HYDRAULIC SYSTEM EQUIPMENT & SPARE PARTS | ITEM | 12 | = |

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MINISTRY OF OIL
ESTABLISHMENT NAME: SOUTH OIL COMPANY

SHEET NO.: 8 OF 43

| CODE | ITEM DESCRIPTION | UNIT QTY | QTY | COMMENT |
|--------------|---|----------|-----|------------------------------|
| | RUSTON TA - 1750, ROTORS & STATORS REFURBISHMENT | | | Service contracts for Ruston |
| 08-7-00-0345 | EACH SET CONSIST OF :-1 NO. COMPRESSOR ROTOR, 1 NO. | SET | 4 | motors, mainly in S Kumailan |
| | C.T. ROTOR, 1 NO. P.T. ROTOR, 1.NO. C.T. STATOR, 1 NO. P.T. | | | = |
| | STATOR | | | |

LOCATION: NORTH, SOUTH RUMAILA & GARMA WATER TREATMENT & INJECTION SYSTEM

| QTY COMMENT | Water treatment and injection spare parts and equipment |
|------------------|--|
| UNIT | ITEM |
| ITEM DESCRIPTION | PUMPS & SPARE PARTS FOR MAIN INJECTION PUMPS AND FOR WATER TREATMENT EQUIPMENT |
| CODE | 08-7-00-0346 |

MINISTRY OF OIL ESTABLISHMENT NAME: SOUTH OIL COMPANY

SHEET NO.: 9 OF 43

LOCATION: AL BAKER TERMINAL

| CODE | ITEM DESCRIPTION | UNIT | UNIT QTY | COMMENT |
|--------------|---|------|----------|---|
| 08-7-00-0347 | SPARE PARTS FOR LOADING ARMS TYPE: 24" X80" F. P. D. C. M. A. | ITEM | 90 | Repair and maintenance of equipment at Mina al-Bakr |
| 08-7-00-0348 | VALVE ACTUATORS & SPARES FOR MAIN PIPE LINE 48" | ITEM | 16 | ** |
| 08-7-00-0349 | CAPSTANS & SPARE PARTS FOR CAPSTAN PULL-PAK MODEL: 1104, | ITEM | 24 | = |

LOCATION: WEST QURNA MAINTENANCE OF PRODUCTIONS STATIONS (DEGASSING)

| | CODE | ITEM DESCRIPTION | UNIT | UNIT QTY | COMMENT |
|---|--------------|---|------|----------|--|
| | 08-7-00-0350 | PUMPS & SPARE PARTS FOR BOOSTER PUMPS GABBIONETA TYPE: VB 350 / 200/ 2 | ITEM | 170 | Equipment for West Qurna degassing station |
| | 08-7-00-0351 | ELECTRIC MOTOR DRIVEN JOCKEY PUMPS, HORIZONTALLY INSTALLED SKID MOUNTED | ITEM | 2 | = |
| | 08-7-00-0352 | SKID MOUNTED, HEAVY DUTY, INDUSTRIAL TYPE FOR CONTINUOS OPERATION DIESEL ENGINE DRIVEN GENERATING SET HAVING AN OUTPUT OF (750) KVA AT (0.8 POWER FACTOR) (600KW) & SPARE PARTS | ITEM | 2 | = |
| * | 08-7-00-0353 | SKID MOUNTED ELECT. FIRE FIGHTING PUMPS (4NOS) WITH SPARES | ITEM | 2 | Ξ |

MINISTRY OF OIL
ESTABLISHMENT NAME: SOUTH OIL COMPANY

SHEET NO.: 10 OF 43

LOCATION: ALL DEPOTS, OIL STORAGE DEPOTS, TANK FARMS & PUMP STATIONS

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|------|-----|---|
| 08-7-00-0354 | CONTROL SYSTEM FOR TURBO GENERATOR ALSTHOM | ITEM | 25 | Equipment and spares for instrumentation repair and maintenance |
| 08-7-00-0355 | CONTROL SPARES FOR TURBINES I.R. | ITEM | 20 | 14 |
| 08-7-00-0356 | SPARES FOR CONTROL SYSTEM AT PSI | ITEM | 25 | |
| 08-7-00-0357 | TANK GAUGING SYSTEM FOR ZUBAIR DEPOT WITH SPARES | ITEM | 5 | = |
| 08-7-00-0358 | CRUDE OIL METERING SYSTEMS FOR DEPOTS WITH SPARES | ITEM | 5 | 1. |
| 08-7-00-0359 | LEVEL SWITCHES FOR TANKS AND ACCESSORIES | ITEM | 50 | - |
| 09-20-03-00 | CONTROL CABLES FOR PUMP STATIONS | ITEM | 50 | = |
| 08-7-00-0361 | TOOLS & EQUIPMENT FOR MAINTENANCE OF METERING SYSTEMS | ITEM | 50 | - |
| 08-7-00-0362 | INSTRUMENTS SPARES FOR GROVE SURGE RELIEF VALVE | ITEM | 10 | |

MAINTENANCE & REVAMPING OF DEGASSING / DESALTING STATIONS LOCATION: NORTH & SOUTH RUMAILA

| CODE | ITEM DESCRIPTION | UNIT | UNIT QTY | COMMENT |
|--------------|--|------|----------|--|
| 08-7-00-0363 | QURAINAT DEGASSING STATION CENTRAL CONTROL SYSTEM | ITEM | 100 | Instrument repair and maintenance at degassing and desalting stations. |
| 08-7-00-0364 | SPARES FOR CONTROL VALVES DESIGN V500 & DESIGN ED | ITEM | 100 | 11 |
| 08-7-00-0365 | CONTROL & PROTECTION INSTRUMENTS FOR WET CRUDE BANKS AT DEGASSING STATIONS | ITEM | 100 | = |

ESTABLISHMENT NAME: SOUTH OIL COMPANY LOCATION: NORTH & SOUTH RUMAILA / GAS

SHEET NO.: 11 OF 43

| N STATIONS | |
|--------------------|--|
| COMPRESSION STATIC | |
| | |

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|-----------------------------------|------|-----|--------------------------------------|
| 08-7-00-0366 | SPARES FOR CONTROL ROOM EQUIPMENT | ITEM | 150 | Instrumentation spares and equipment |
| 08-7-00-0367 | FIELD INSTRUMENTS WITH SPARES | ITEM | 150 | 11 |
| | | | | |

MAINTENANCE OF PRODUCTION STATIONS (DEGASSING) LOCATION: ZUBAIR / BASRAH

| CODE | ITEM DESCRIPTION | UNIT QTY | QTY | COMMENT |
|--------------|--|----------|-----|--|
| 08-7-00-0368 | SPARES FOR CONTROL ROOM OF DEGASSING STATIONS | ITEM | 200 | Spares and equipment for instrumentation in degassing stations |
| 08-7-00-0369 | SPARES FOR CONTROL VALVES | ITEM | 100 | 1 |
| 08-7-00-0370 | FIELD INSTRUMENTS FOR DEGASSING STATION WITH SPARES | ITEM | 100 | = |
| 08-7-00-0371 | CONTROLLERS AND POSITIONERS FOR DEGASSING BANKS ITEM | ITEM | 150 | 11 |

LOCATION: NORTH & SOUTH RUMAILA, GARMA, WATER INJECTION SYSTEM

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|-----|--|
| 08-7-00-0372 | SPARES FOR INSTRUMENTS OF CHLORINE STATION-GARMA | ITEM | 200 | Spares for chlorine injection instrumentation systems |

SHEET NO.: 12 OF 43

ESTABLISHMENT NAME: SOUTH OIL COMPANY LOCATION: WEST QURUA

CONTINUATION OF THE UPGRADING OF DG7 & DG8, PHASE (1) / WEST QURNA OIL FIELD

| COMMENT | Instrumentation and spares for | n n |
|------------------|-----------------------------------|--|
| QTY | 50 | 50 |
| UNIT | ITEM | ITEM |
| ITEM DESCRIPTION | CONTROL VALVE FOR DEGASSING BANKS | INSTRUMENTS AND SPARES FOR DEGASSING BANKS |
| CODE | 08-7-00-0373 | 08-7-00-0374 |

LOCATION: NORTH & SOUTH RUMAILA DEGASSING AND COMPRESSION STATIONS ELECTRICAL MATERIALS

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|-----|--|
| 08-7-00-0375 | SPARE PARTS FOR OVER HEAD CRANE | ITEM | 100 | Spare Parts and equipment (electrical) for degassing and |
| 08-7-00-0376 | REPLACEMENT OF OLD BATTERIES FOR ALL AREAS | ITEM | 100 | 44 |
| 08-7-00-0377 | ELECTRICAL VALVE ACTUATORS & SPARE PARTS | ITEM | 150 | 41 |
| 08-7-00-0378 | SPARE PARTS FOR GAS TURBINE | ITEM | 150 | 11 |
| 08-7-00-0379 | SPARE PARTS FOR MAIN MEDIUM VOLTAGE MOTOR | ITEM | 100 | 11 |
| 08-7-00-0380 | U.P.S UNIT AND SPARE PARTS FOR ALL AREAS | ITEM | 100 | = |
| 08-7-00-0381 | WORK SHOP EQUIPMENT FOR ALL AREAS | ITEM | 100 | |
| 08-7-00-0382 | SPARE PARTS FOR DIESEL GENERATORS | ITEM | 100 | 11 |
| 08-7-00-0383 | SPARE PARTS FOR MEDIUM, AND LOW VOLTAGE SWITCH GEAR, MCC PANEL WITH ALL ACCESSORIES | ITEM | 150 | = |
| 08-7-00-0384 | POWER TRANSFORMER & EARTHLING TRANSFORMER | ITEM | 50 | = |
| 08-7-00-0385 | BATTERY CHARGERS & SPARES | ITEM | 100 | : |

SHEET NO.: 13 OF 43

ESTABLISHMENT NAME: SOUTH OIL COMPANY LOCATION: AL-BAKER TERMINAL ELECTRICAL MATERIALS

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|-----|---|
| 08-7-00-0386 | LOW VOLTAGE & MEDIUM S.G. PANELS MCC, SPARE PARTS AND ACCESSORIES (EXPLOSION PROOF). | ITEM | 100 | Electrical spares and equipment for Mina al-Bakr loading platform |
| 08-7-00-0387 | SPARE PARTS FOR DIESEL ENGINE & FIRE FIGHTING ENGINE | ITEM | 100 | = |
| 08-7-00-0388 | ELECTRIC VALVE ACTUATORS AND SPARE PARTS | ITEM | 75 | = |
| 08-7-00-0389 | CONTRACTORS, CIRCUIT BREAKER, OVERLOAD, GLAND & ACCESSORIES | ITEM | 200 | = |
| 08-7-00-0390 | SPARE PARTS FOR LOADING ARM | ITEM | 20 | a. |

LOCATION: NORTH & SOUTH RUMAILA, GARMA, WATER INJECTION SYSTEM ELECTRICAL MATERIALS

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|-------|--|
| 08-7-00-0391 | SPARE PARTS FOR MEDIUM & LOW VOLTAGE SWITCH GEAR | ITEM | 100 | Electrical spares for water injection systems |
| 08-7-00-0392 | BATTERY CHARGER AND SPARES | ITEM | 115 | 14 |
| 08-7-00-0393 | ELECTRICAL LAMP, LAMP FITTING, AND ACCESSORIES FOR ALL AREAS | ITEM | _ 200 | : |
| 08-7-00-0394 | ELECTRIC MOTOR AND REPAIR MOTORS, AND SPARE PARTS | ITEM | 100 | E. |
| 08-7-00-0395 | SOLAR CATHODIC PROTECTION | ITEM | 100 | н |

MINISTRY OF OIL
ESTABLISHMENT NAME: SOUTH OIL COMPANY

SHEET NO.: 14 OF 43

LOCATION: ALL DEPOT, OIL STORAGE DEPOTS, TANK FARM & PUMP STATIONS

| CODE | ITEM DESCRIPTION | UNIT | UNIT QTY . | COMMENT | |
|--------------|---|------|------------|---|--|
| 08-7-00-0396 | EXPLOSION PROOF ELECTRIC PANEL, LOW VOLTAGE SWITCH RACK AND ACCESSORIES | ITEM | 200 | Electrical spares for fuel depots and pump stations | |
| 08-7-00-0397 | ELECTRICAL LAMP, LAMP FITTINGS, POLES, AND ACCESSORIES FOR ALL AREAS | ITEM | 150 | 2 | |
| 08-7-00-0398 | SPARE PARTS FOR IGNITION EXCITER | ITEM | 150 | 11 | |
| 08-7-00-0399 | ELECTRICAL VALVE ACTUATOR AND SPARE PARTS | ITEM | 200 | = | |

LOCATION: WEST QURNA
DEVELOPMENT OF DG7 & DG8,
PHASE (1) / WEST QURNA OIL FIELD
ELECTRICAL MATERIALS

| CODE | ITEM DESCRIPTION | UNIT | UNIT QTY | COMMENT |
|--------------|---|------|----------|---|
| 08-7-00-0400 | CABLE, HIGH, LOW VOLTAGE, ACSR BAR WIRE, CABLE JOINTS AND ACCESSORIES | ITEM | 200 | Electrical spares for degassing stations. |
| 08-7-00-0401 | MOBILE SUBSTATION, AND POWER TRANSFORMER 132/33/11 KB | ITEM | 20 | |
| 08-7-00-0402 | MATERIALS FOR CATHODIC PROTECTION | ITEM | 100 | = |
| 08-7-00-0403 | SPARE PARTS FOR LOW VOLTAGE SWITCH GEAR, & MCC, WITH ALL ACCESSORIES | ITEM | 300 | = |
| 08-7-00-0404 | DIESEL GENERATORS AND (100) ITEMS OF SPARE PARTS & ACCESSORIES. | ITEM | 150 | = |

MINISTRY OF OIL ESTABLISHMENT NAME: SOUTH OIL COMPANY

SHEET NO.: 15 OF 43

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| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|---------|------|--|
| 08-7-00-0405 | BEARING SEVERAL TYPES FOR MOTOR AND PUMP MAINTENANCE | ITEM | 100 | General engineering spares and equipment for repair and maintenance throughout South area. |
| 08-7-00-0406 | SPARE PARTS FOR WATER TREATMENT STATION(R. O.) UNIT | ITEM | . 51 | 44 |
| 08-7-00-0407 | WATER TREATMENT STATION IN MUFTIA PACKAGE 300M3 /HR CONSIST OF (40) ITEMS. | PACKAGE | 1 | H |
| 08-7-00-0408 | SPARE PARTS FOR TRAIN A/C UNIT MODEL SAHDIOM. RAUB 45 SACA-1254-A, BTCO85 AND FOR CVAC-AIR COOLED CENTERFUGAL LIQUID CHILLER 021 COLD STORE | ITEM | 30 | = |
| 08-7-00-0409 | SPARE PARTS FOR A/C SPLIT, WINDOW & REFRIGERATOR | ITEM | 35 | 11 |
| 08-7-00-0410 | MATERIALS FOR CABLE JOINTING | ITEM | 35 | н |
| 08-7-00-0411 | SPARE PARTS FOR ITALOCON INTERNATIONAL COOLING DEVICES VARIOUS MODELS | ITEM | 15 | = |
| 08-7-00-0412 | PARTS FOR WATER PUMP STATION FOR I | ITEM | 20 | + |
| 08-7-00-0413 | | ITEM | . 35 | 4 |
| 08-7-00-0414 | SPARE PARTS FOR MUFTIAH WATER TREATMENT STATION | ITEM | 16 | ı |
| 08-7-00-0415 | A/C UNIT FOR WEST QURNA C.G.S (7 & 8) | ITEM | S | 11 |
| 08-7-00-0416 | SPARE PARTS FOR 11 KV DISTRIBUTION SWITCHGEAR | ITEM | 30 | Đ |
| 08-7-00-0417 | ADVANCE GAS CHLORINATOR AND SPARE PARTS FOR WATER TREATMENT | ITEM | . 35 | •• |
| 08-7-00-0418 | SPARE PARTS FOR STREET LIGHTING | ITEM | 10 | - |
| 08-7-00-0419 | SPARE PARTS FOR WEIR PUMPS | ITEM | 7 | 11 |
| 08-7-00-0420 | WATER TANK: CAPACITY 2500 M3 FOR OIL FIELDS | NOS. | 4 | - |
| 08-7-00-0421 | MATERIALS FOR REWINDING SEVERAL TYPES OF MOTOR | ITEM | 32 | н |
| 08-7-00-0422 | REPAIR OF ELECTRIC MOTORS, MEDIUM VOLTAGE | ITEM | 10 | 11 |
| 08-7-00-0423 | & SPARE PARTS FOR A/C UNITS CHILLER VARIOUS PACKAGE & SPARE PARTS FOR LIFT 380 VAC, 50 HZ | ITEM | 35 | 44 |

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MINISTRY OF OIL ESTABLISHMENT NAME: SOUTH OIL COMPANY

SHEET NO.: 16 OF 43

LOCATION: NORTH & SOUTH RUMAILA DEGASSING STATIONS UTILITIES

| CODE | ITEM DESCRIPTION | UNIT QTY | QTY | COMMENT |
|--------------|---|----------|-----|---|
| 08-7-00-0424 | SPARE PARTS FOR CRUSH VALVE & ROBOTARM ACTUATOR | ITEM | 50 | Mechanical spare parts for degassing stations |
| 08-7-00-0425 | SPARE PARTS FOR HITACHI & DAIKEN A/C UNITS &DAIKEN CHILLER | ITEM | 18 | = |

LOCATION: AL-BAKER TERMINAL

| COMMENT | Air conditioning unit for Mina al- Bakr loading platform. |
|------------------|--|
| QTY | 2 |
| UNIT | ITEM |
| ITEM DESCRIPTION | A/C UNIT FOR AL-BAKER TERMINAL |
| CODE | 08-7-00-0426 |

LOCATION: AL-BAKER TERMINAL TELECONTROL

| | A S O A SERVICE SALE OF SERVICE SALE SALES SERVICES | | | |
|--------------|--|------|----------|---|
| CODE | ITEM DESCRIPTION | | UNIT OTY | COMMENT |
| 08-7-00-0427 | TELECONTROL SYSTEM FOR PUMPING OIL TO AL-BAKER TERMINAL FROM PSI-ZUBAIR-FAO | ITEM | 15 | Control and communications equipment for Mina al-Bakr loading platform. |
| 08-7-00-0428 | PUBLIC ADDRESS SYSTEMS ON AN OPEN PLATFORM AL-BAKER TERMINAL | ITEM | 15 | - |
| 08-7-00-0429 | COMPACT VHF FM TRANSCEIVER RADIO TELEPHONE SETS WORKING ON ALL INTERNATIONAL MARINE CHANNELS | ITEM | 10 | = |
| 08-7-00-0430 | PORTABLE PERSONAL RADIO MARIN BAND VHF FM SETS | ITEM | 10 | Ξ |

ESTABLISHMENT NAME: SOUTH OIL COMPANY

SHEET NO.: 17 OF 43

LOCATION: WEST QURNA

TELECONTROL

| CODE | ITEM DESCRIPTION | UNIT | UNIT OTY | COMMENT |
|--------------|---|-------|----------|-----------------------------------|
| TOO | | | , | |
| 00 M 00 0421 | DEHYDRATOR TYPE DBP-L5B2 TO REPLACE THE DAMAGE | TTRIM | 1 | Complete dehydrator unit for West |
| US-/-UG-0421 | AT WEST QURNA | | 2 | Qurna |
| | (3) NO.CHARGE CONTROL REGULATOR FOR POWER | | | Power control regulator for |
| 08-7-00-0432 | FÉEDING TO TELECONTROL SYSTEM IN PSI & WEST QURNA | ITEM | 10 | telecontrol system at West Qurna |
| | FIELD | | | |

LOCATION: ALL AREAS TELECONTROL

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|-----|--|
| 08-7-00-0433 | (10) STANDARD FACSIMILE (FAX) SET WITH SPARE PARTS. | ITEM | 10 | Walkie-Talkie system for Mina al- Bakr |
| 08-7-00-0434 | (4) MODERN (VHF/UHF) WALKIE TALKIE SETS (10 PAIRS). | ITEM | 10 | Ε. |
| 08-7-00-0435 | SPARE PARTS FOR NEC (SCADA SYSTEM) SERIES CARRIER MULTIPLEX EQUIPMENT. | ITEM | 20 | Spares for Scada system |
| 08-7-00-0436 | SPARE PARTS FOR PCM MULTIPLEX EQUIPMENT FOR ALBAKER TERMINAL. | ITEM | 20 | Spares for PCM erquipment at Mina al-Bakr |

LOCATION: ALL AREAS

| CODE | ITEM DESCRIPTION | | UNIT QTY | COMMENT |
|--------------|--|------|------------|--------------------------------|
| 08-7-00-0437 | CIVIL ENGINEERING EQUIPMENT, WITH SPARES AND ACCESSORIES | ITEM | 30 | General engineering equipment. |
| 08-7-00-0438 | | ITEM | દ | ε |
| 08-7-00-0439 | CONCRETE TRUCK MIXER 6m' WITH SPARES AND ACCESSORIES | ITEM | 2 | = |

ESTABLISHMENT NAME: SOUTH OIL COMPANY MINISTRY OF OIL

SHEET NO.: 18 OF 43

LOCATION: MESSAN FIELDS

DEGASSING STATIONS, OIL STORAGE DEPOTS, TANK FARMS & PUMPING STATIONS

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|----------|------|---|
| 08-7-00-0440 | MECHANICAL EQUIPMENT LATHE UNIVERSAL MILLING, SAWING MACHINE ETC WITH SPARES & ACCESSORIES EACH SET CONSISTS OF (100) ITEM | SET | 20 | Workshop equipment requirements |
| 08-7-00-0441 | WATER BATH INDIRECT OIL HEATERS COMPLETE WITH (4) SETS OF SPARES EACH SET CONSISTS OF 75 ITEM. | ITEM | 4 | Crude oil heaters for Messan field |
| 08-7-00-0442 | SPARE PARTS FOR BURTON COBLINE AIR COMPRESSOR AND PUMPS | шем | 450 | Mechanical spare parts and equipment. |
| 08-7-00-0443 | SPARE PARTS FOR SOLAR TURBINE MDG 4000. | ITEM | 50 | = |
| 08-7-00-0444 | SPARE PARTS FOR CATERPILLAR ENGINES | ITEM | 2000 | = |
| 08-7-00-0445 | SPARE PARTS FOR AIR COMPRESSOR, BROOM & WADE | ITEM | 115 | = |
| 08-7-00-0446 | CIVIL WORKS TRUCKS & EQUIPMENT TRACTORS, DUMBERS, CONCRETE MIXER, SHOVEL. | ITEM | 10 | Mechanical equipment. |
| 08-7-00-0447 | CIVIL WORKS INSTRUMENTS THEODOLIT, LEVELS | ITEM | S | Tools |
| 08-7-00-0448 | FRESH WATER NETWORK MATERIALS | ITEM | 3200 | Spares and equipment |
| 08-7-00-0449 | TRUCK MOUNTED AERIAL LIFT | NOS. | 1 | 1 |
| 08-7-00-0450 | ELECT. SPARES FOR DEGASSING STATIONS & TERMINAL (BUZURGAN OIL TREATMENT) | ITEM | 4000 | Electrical spares for degassing stations. |
| 08-7-00-0451 | SPARES FOR HOBART WELDING MACHINES. | ITEM | 200 | Spares and equipment for repairs. |
| 08-7-00-0452 | SPARES FOR WATER BATH INDIRECT OIL HEATERS. | ITEM | 250 | # |
| 08-7-00-0453 | (ABROAD) | CONTRACT | - | Overseas repair contract. |
| 08-7-00-0454 | CRUDE OIL ELECT. PUMP WITH SPARES AND ACCESSORIES. | ITEM | 20 | Pump and spares. |

SHEET NO.: 19 OF 43

ESTABLISHMENT NAME: SOUTH OIL COMPANY

LOCATION: MESSAN FIELDS DEGASSING STATIONS, OIL STORAGE DEPOTS, TANK

FARMS & PUMPING STATIONS

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|-------|----------------|--|
| 08-7-00-0455 | MATERIAL AND EQUIPMENT FOR ELECT SUBSTATION 33 /6.6 K.V CONSIST OF HIGH VOLTAGE SWITCH BOARD, TRANSFORMERS, PMCC, CABLES. | ITEM | 20 | Electrical spares and equipment |
| 08-7-00-0456 | FLOW LINE MAINTENANCE MACHINES AND DEVICES | ITEM | 029 | = |
| 08-7-00-0457 | INSTRUMENTS & OTHER DEVICES FOR DEGASSING STATION | ITEM | 009 | = |
| 08-7-00-0458 | MAINTENANCE TOOLS AND EQUIPMENT FOR OPERATIONAL PURPOSES | NOS. | 7000 | = |
| 08-7-00-0459 | EQUIPMENT AND MATERIALS FOR WELL HEAD MAINTENANCE | ITEM | 3500 | = |
| 08-7-00-0460 | FLOW LINE ACCESSORIES | ITEM | 25000 | |
| 08-7-00-0461 | FIRE FIGHTING EQUIPMENT | ITEM | 50 | Fire fighting equipment and consumables |
| 08-7-00-0462 | RESERVOIR MONITORING SOFTWARE | ITEM | 10 | General software for reservoir operations. |
| 08-7-00-0463 | WELL TESTING EQUIPMENT AND GEOLOGICAL, MUD LOGGING AND TOTAL DRILLING CONTROL EQUIPMENT | ITEM | 10 | Testing and control equipment |
| 08-7-00-0464 | MATERIALS, PUMPS, TANKS & VESSELS, EQUIPMENT ACCESSORIES, PIPES, FITTING AND VALVES NEEDED TO ESTABLISH A WATER TREATMENT PLANT (BUZURGAN WATER INJECTION PILOT PLANT) | PLANT | y wet : | Equipment and spares for water treatment plant. |

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MINISTRY OF OIL ESTABLISHMENT NAME: SOUTH OIL COMPANY

SHEET NO.: 20 OF 43

LOCATION: ALL AREAS
SPECIALIZED TRUCKS, EQUIP. TOOLS AND
WORKSHOP EQUIPMENT

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|------|-------|---|
| 08-7-00-0465 | WHEEL LOADER WITH (60) ITEM SPARE PARTS. | NOS. | 9 | Transport and heavy equipment requirements. |
| 08-7-00-0466 | CRAWLER EXCAVATOR WITH (20) ITEMS SPARE PARTS. | NOS. | 7 | = |
| 08-7-00-0467 | TYRE ROLLER WITH (40) ITEMS SPARE PARTS | NOS. | 4 | |
| 08-7-00-0468 | CRANE CAP.10 TON WITH (40) ITEMS SPARE PARTS | NOS. | 9 | = |
| 08-7-00-0469 | TRUCK WITH CONCRETE MIXER WITH (20) ITEMS SPARES | NOS. | 3 | |
| 08-7-00-0470 | TRUCK WITH SLUSH VACUUM WITH (20) ITEMS SPARES | NOS. | 2 | = |
| 08-7-00-0471 | RECOVERY TRUCK FOR LIGHT VEHICLES WITH (20) ITEMS SPARE PARTS | NOS. | 7 | |
| 08-7-00-0472 | TRUCK TRACTOR WITH CEMENT SEMI-TRAILER CAP.35TON WITH (30) ITEMS SPARE PARTS | NOS. | m | c |
| 08-7-00-0473 | FORK LIFT DIFFERENT CAPACITY WITH SPARES & ACCESSORIES.(50) ITEMS. | NOS. | 12 | |
| 08-7-00-0474 | SIDE FORK LIFT 40 TON WITH (20) ITEMS SPARE PARTS | NOS. | 2 | |
| 08-7-00-0475 | DUMPER WITH (30) ITEMS SPARE PARTS | NOS. | 3 | Ŧ |
| 08-7-00-0476 | CESSPIT EMPTIER TRUCK WITH WATER JETTING UNIT WITH (20) ITEMS SPARE PARTS | NOS. | 2 | = |
| 08-7-00-0477 | TYRES WITH TUBES & FLAPS | TEMS | 80 | |
| 08-7-00-0478 | WORKSHOP EQUIPMENT | ITEM | 7.0 | |
| 08-7-00-0479 | SPARE PARTS FOR HEAVY EQUIPMENT & VEHICLES | ITEM | 1500 | - |
| 08-7-00-0480 | SPARE PARTS FOR LIGHT EQUIPMENT & VEHICLES | ITEM | 10000 | 11 |
| 08-7-00-0481 | FUEL STATIONS SOUTH RUMAILA COMPLETE | ITEM | 150 | Filling stations for South area. |
| 08-7-00-0482 | BUS (24) SEATERS & SPARES. | NOS. | 06 | Transportation requirements |
| 08-7-00-0483 | | NOS. | 09 | = |
| 08-7-00-0484 | PICK-UP DOUBLE CABIN & SPARES. | NOS. | 106 | |

SHEET NO.: 21 OF 43

ESTABLISHMENT NAME: SOUTH OIL COMPANY LOCATION: ALL AREAS

| COMMENT | | Consumables for repair and | 1 | = | = | = | = | = | : |
|------------------|---|----------------------------|-----|----------------|----------------|-----|------|-----|-----|
| QTY | | 1350 | 200 | 006 | 300 | 270 | 1000 | 4 | 1 |
| UNIT | | TON | TON | TON | TON | TON | TON | TON | LOT |
| ITEM DESCRIPTION | EQUIPMENT AND MATERIALS FOR REHABILITATION OF ELECTRICAL DISTRIBUTION SYSTEM CONSISTING OF: | - COPPER BARS | | - PVC COMPOUND | | | | | |
| CODE | EC | 1 | | l | - 08-7-00-0485 | 1 | 1 | ı | 1 |

ESTABLISHMENT NAME: SOUTH OIL COMPANY MINISTRY OF OIL

SHEET NO.: 22 OF 43

LOCATION: FAO TANK FARM

REHABILITATION OF FAO TANK FARM

ACTIVITY NO. (23):

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|--------|-----|---|
| 08-7-23-0486 | LINE PIPE, PIPE FITTING, FLANGES, VALVES AND WELDING ELECTRODES. | ITEM | 465 | Equipment and spares for rebuilding of Fao tank farm to enhance storage capacity for exports via Mina al-Bakr |
| 08-7-23-0487 | 5000m², FIRE WATER TANK | NOS. | TT. | 11 |
| 08-7-23-0488 | FIRE FIGHTING FACILITIES INCLUDING PUMPS; FOAM BAG; TANK FOAM GENERATORS; FIRE WATER MONITOR; MOBILE WATER MONITORS; FIRE HYDRANTS; HYDRANT HOSE; HOSE REEL; HYDRANT BOX; EXTINGUISHERS, WHEELED AND MOBILE CO2 EXTINGUISHERS; QUICK CONNECTIONS; TWINND WHEELED EXTINGUISHER & OTHER ACCESSORIES. | ITEM | 196 | = |
| 08-7-23-0489 | TURBO GENERATING SET | SET | 1 | - |
| 08-7-23-0490 | 58000M' FLOATING ROOF CRUDE OIL STORAGE TANKS | NOS. | 4 | H. |
| 08-7-23-0491 | INSTRUMENT EQUIPMENT | ITEM | 225 | 4 |
| 08-7-23-0492 | DISTRIBUTED CONTROL SYSTEM | SET | 1 | 4 |
| 08-7-23-0493 | CABLES OF DIFFERENT SIZE | LOT | 15 | - |
| 08-7-23-0494 | FITTINGS | LOT | - | = |
| 08-7-23-0495 | COMMUNICATION EQUIPMENT | LOT | - | = |
| 08-7-23-0496 | FIRE ALARM SYSTEM | LOT | - | * |
| 08-7-23-0497 | MEDIUM VOLTAGE SWITCHGEAR, POWER RANSFORMERS, CABLES & ACCESSORIES | ITEM | 14 | = |
| 08-7-23-0498 | SURGE SYSTEM & PRESSURE REDUCTION SYSTEM | SYSTEM | 2 | = |

ESTABLISHMENT NAME: SOUTH OIL COMPANY (SOC)

SHEET NO.: 23 OF 43

LOCATION: NORTH RUMAILA

UPGRADING OF PRODUCTION FACILITIES ACTIVITY NO. (24):

| CODE | ITEM DESCRIPTION UNIT | | QTY COMMENT |
|--------------|--|-----|---|
| | OIL & WATER INJECTION FOR BETTER RESERVOIR MANAGEMENT CONSISTING OF THE FOLLOWING, | | Water injection systems to enhance production |
| | COMPLETE IN THE ALL ACCESSORIES & SPARES: | | |
| | WATER LINES TO CLUSTER PUMPING STATIONS, (19) SETS | | |
| 000 7 7 000 | | | |
| 00-/-24-0433 | | 101 | |
| | TELEPHONIC FACILITIES SYSTEM, ELECTRICAL | | |
| | DISTRIBUTION NETWORK & POWER TRANSFORMERS, | | , |
| | DIESEL GENERATOR, D.C. SYSTEMS, EARTHING | | |
| | MATERIALS ETC | | |

ESTABLISHMENT NAME: SOUTH OIL COMPANY MINISTRY OF OIL

SHEET NO.: 24 OF 43

LOCATION: WEST QURNA OIL FIELD
CONTINUATION OF OIL FIELD UPGRADING
(SURFACE INSTALLATIONS)

ACTIVITY NO. (25):

| , | | -48- | | | | - | | | | |
|--------------------|------------------|--|--------------------------|---|--|--|--|--------------|---|-------------------|
| | COMMENT | Equipment and spares for upgrading development of production from West Qurna field | = | - | = | = | z | = | = | = |
| | QTY | 200 | 2 | 7 | 4 | - | E | 1 | 1 | 1 |
| | UNIT | ITEM | SET | SET | SET | SET | LOT | SET | SET | SET |
| ACHAH I 100. (43). | ITEM DESCRIPTION | - WATER INTAKE SYSTEM CONSISTING OF: - VARIOUS PUMPS FOR (LIFT (1ST & 2ND), DRAINAGE, SEWAGE, WASHING WATER, EJECTOR, PUMPS, DOSING, PROPORTIONING, EMERGENCY, TREATED WATER, WASTE WATER, FLOOD PUMPS, DESALTED WATER, WATER SUPPLY) OTHER PUMPS & RELATED FUNCTIONS.WITH SPARES - AIR BLOWER S, AIR SUPPLY SYSTEMS & SPARES - COATED & UNCOATED PIPE LINES - FLANGES & FITTINGS, VALVES ETC - MANIFOLDS & ACCESSORIES - CLUSTER PUMPING STATIONS & AUX. PUMPS & SPARES - CLUSTER PUMPING STATIONS & AUX. PUMPS & SPARES - CHLORINATION SYSTEM WITH ALL ACCESSORIES, CONTAINERS, CYLINDERS ETC & SPARES | WATER DEOXIDIZATION UNIT | UNIT FOR CATIONIC FLOCCULATION DISSOLVING WITH SPARES | UNIT FOR FLOCCULATION DILUTION PREPARATION WITH SPARES | WATER DESALTING UNITS (VARIOUS CAPACITIES WITH SPARES | PROCESS CONTROL PANEL & VARIOUS INSTRUMENT QUIPMENT WITH ACCESSORIES & SPARES | | FILTRATION PACKAGE, CONSISTING OF: PRE COAT FILTER , ACTIVATED CARBON CARTRIDGE FILTERETC & SPARES | ANTI FOAM PACKAGE |
| ` | CODE | 08-7-25-0500 | 08-7-25-0501 | 08-7-25-0502 | 08-7-25-0503 | 08-7-25-0504 | 08-7-25-0505 | 08-7-25-0506 | 08-7-25-0507 | 08-7-25-0508 |

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ESTABLISHMENT NAME: SOUTH OIL COMPANY MINISTRY OF OIL

SHEET NO.: 25 OF 43

LOCATION: WEST QURNA OIL FIELD

CONTINUATION OF OIL FIELD UPGRADING (SURFACE INSTALLATION) ACTIVITY NO. (25):

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|----------------|--|------|------|---------|
| 08-7-25-0509 | HOT OIL PACKAGE (HEATER, SURGE DRUM, PUMPSETC) | SET | 1 | 11 |
| 08-7-25-0510 | INSTRUMENT AIR & UTILITY AIR PACKAGE (RECEIVERS, COMPRESSORSETC) | SET | 1 | 11 |
| 08-7-25-0511 | INDUSTRIAL WATER PRE-TREATMENT (STORAGE TANK, PUMPS, FILTERSETC) & SPARES | NOS. | 1 | = |
| 08-7-25-0512 | CORROSION INHIBITOR PACKAGE | SET | œ | = |
| 08-7-25-0513 | FIRE PROTECTION FACILITIES WITH SPARES | ITEM | 99 | - |
| 08-7-25-0514 | PIPES, FLANGES, VALVES & PIPE FITTINGETC | LOT | 10 | 11 |
| 08-7-25-0515 | PIPE LINES & PIPE COATING MATERIALS | LOT | 1 | 11 |
| 08-7-25-0516 | COMPLETE PROCESS CONTROL SYSTEM | SET | 1 | 11 |
| 08-7-25-0517 | INSTRUMENT EQUIPMENT WITH SPARES | LOT | 1 | 11 |
| 08-7-25-0518 | GENERATORS, MED. VOLTAGE SWITCHGEAR, CABLES, POWER, TRANSFORMER ELECTRICAL MOTORSETC | ITEM | 100 | = |
| 08-7-25-0519 | FILTERS FOR WATER | NOS. | 10 | ** |
| 08-7-25-0520 | CABLES & FITTINGS | ITEM | 99 | = |
| . 08-7-25-0521 | STEEL REINFORCEMENT | TON | 1000 | |

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MINISTRY OF OIL

SHEET NO.: 26 OF 43

ESTABLISHMENT NAME: SOUTH OIL COMPANY
LOCATION: WEST QURNA
GAS UTILIZATION & ENVIRONMENTAL PROTECTION
ACTIVITY NO. (26):

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|----------------|--|------|-----|--|
| 08-7-26-0522 | COMPRESSORS HIGH & LOW PRESSURE CENTRIFUGAL GAS COMPS. WITH GAS TURBINE DRIVER, ELE. MOTORETC & SPARES | SET | 20 | Spares and equipment for regeneration and repair of gas drying facility. |
| 08-7-26-0523 | VESSELS, SCRUBBERS, SEPARATORS, RECEIVERS | NOS. | 20 | = |
| 08-7-26-0524 | AIR COOLERS (LOW PRESS & HIGH PRESS) | NOS. | 25 | - |
| . 08-7-26-0525 | GAS SWEETENING PACKAGE CONSIST OF: CONDENSERS, PUMPS, VESSELS, TANKS, ABSORBER, REBOILERS, REGENERATORS, HEAT EXCHANGERS, AIR COOLERSETC & SPARES | LOT | - | = |
| 08-7-26-0526 | GLYCOL GAS DEHYDRATION PACKAGES WITH CAPACITIES 40-60 MNM³/D COMPONENTS: ABSORBERS, REGENERATORS, HEAT EXCHANGERS ,AIR-COOLERS, REBOILERS, SEPARATORS, PUMPS, BLOWERS, TANKS FILTERS, PIPING ,FILTERSETC | LOT | 4 | = |
| 08-7-26-0527 | BLOWERS & PUMPS WITH SPARES | SET | 50 | = |
| | | | | |

MINISTRY OF OIL ESTABLISHMENT NAME: SOUTH OIL COMPANY

SHEET NO.: 27 OF 43

LOCATION: ZUBAIR UTILIZATION OF ZUBAIR GAS & ENVIRONMENTAL PROTECTION

ACTIVITY NO. (27):

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|------|-----|---|
| 08-7-27-0528 | VESSELS | NOS. | 20 | Equipment and spares to reduce gas flaring from Zubair and make same available for power generation |
| 08-7-27-0529 | AIR COOLERS | NOS. | 5 | 11 |
| 08-7-27-0530 | PUMPS | NOS. | 10 | = . |
| 08-7-27-0531 | AIR COMPRESSOR PACKAGES | SET | જ | # |
| 08-7-27-0532 | DRINKING WATER TANKS | NOS. | κ | = |
| 08-7-27-0533 | SLUG CATCHER | NOS. | 3 | = |
| 08-7-27-0534 | COATED PIPE LINES (12 & 24") | KM | 20 | = |
| 08-7-27-0535 | VALVES, FLANGES AND PIPE FITTINGS | ITEM | 49 | = |
| 08-7-27-0536 | PIG LAUNCHER & RECEIVER | NOS. | 9 | = |
| 08-7-27-0537 | INSTRUMENTS | LOT | 4 | |
| 08-7-27-0538 | COMPLETE PROCESS CONTROL SYSTEM | LOT | 7 | = |
| 08-7-27-0539 | ELECTRICAL EQUIPMENT AND CABLES | LOT | 7 | = |
| 08-7-27-0540 | ACCESSORIES AND HANDLING EQUIPMENT & MATERIALS RELATED TO THE ACTIVITY. | LOT | 2 | = |

MINISTRY OF OIL ESTABLISHMENT NAME: SOUTH OIL COMPANY

SHEET NO: 28 OF 43

LOCATION: SOUTH RUMAILA FIELD

RECONSTRUCTION OF MISHRIF QURNAINAT AND MISHRIF SHAMIYA DEGASSING STATIONS

ACTIVITY NO. (28):

| QTY COMMENT | Equipment and spares for reconstruction of degassing stations in S Rumailah both heavil damaged in war. | . 4 | 10 " | | | 20 | = |
|-------------|---|------------------------------|--|------------|---|--|--|
| UNIT | SET | SET | SET | | SET | SET | SET |
| | GAS/OIL SEPARATORS FOR QURAINT DEG.STAT. INCLUDING ALL STEEL PLATES AND STRUCTURES, WITH ALL INTERNAL AND EXTERNAL ACCESSORIES, EACH SET CONSISTS OF 100 ITEMS. | MANIFOLDS FOR OIL FLOW LIENS | INTERCONNECTING PIPING, FITTING, VALVES AND ACCESSORIES FOR QURANAT DEG. STAT. EACH SET CONSISTS OF 200 ITEMS. | 200 ITEMS. | FLARE SYSTEM WITH K.O DRUMS AND FLARE STACKS. | INSTRUMENT AND CONTROL PACKAGES COMPLETE WITH ALL ACCESSORIES AND SPARE PARTS. FOR QURAINAT DEGASSING STATION. | ELECTRICAL PUMPING SETS FOR QURAINT DEGASSING STATION, COMPLETE WITH ALL COMPLEMENTARY EVETENS AND ACCESSIONES AND SEATER BY THE TAX OF THE PARTY OF |
| CODE | 08-7-28-0541 | 08-7-28-0542 | 08-7-28-0543 | | 08-7-28-0544 | 08-7-28-0545 | 08-7-28-0546 |

ESTABLISHMENT NAME: SOUTH OIL COMPANY

SHEET NO.: 29 OF 43

LOCATION: SOUTH RUMAILA FIELD RECONTRUCTION OF MISHRIF QURAINAT & MISHRIF

SHAMIYA STATIONS

ACTIVITY NO. (29):

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|-----|---|
| 08-7-29-0547 | COMPLETE PACKAGE OF FIRE FIGHTING SYSTEM FOR QURAINAT DEG. STAT. INCLUDING ALL FIRE WATER PUMPS, SENSING AND ALARM SYSTEM, FOAM SYSTEM AND ALL ACCESSORIES, PIPING, VALVES &FIRE HYDRANTS SPARESETC. EACH SET CONSISTS OF 50 ITEM. | SET | 100 | Equipment and spares for reconstruction of degassing stations in S Rumailah both heavil damaged in war. |
| 08-7-29-0548 | ELECTRICAL FEEDING AND DISTRIBUTION SYSTEM FOR QURAINAT DEG. STAT. INCLUDING ALL FEEDERS, SWICH GEARS, TRANSFORMERS, MCC BOARD, CABLING AND ALL ACCESSORIES AND SPARE PARTS SETS. EACH SET CONSISTS OF 150 ITEM | SET | 20 | : |
| 08-7-29-0549 | 2 NOS. OF DEHYDRATION/DESALTING UNITS OF 50 000 B/D CAPACITY FOR QURAINAT MISHRIF AND SHAMIYA MISHRIF DEGASSING STATIONS. COMPLETE WITH ALL COMPLEMENTARY SETS OF DEHY. AND DESALTER VESSELS, STEEL PLATE AND STRUCTURES, HEATERS, PUMPS, PIPING, FITTING, VALVES, ELECTRICAL PACKAGE, INSTRUMENT AND CONTROL PACKAGES, WATER TREATMENT UNIT, CABLING AND ALL NECESSARY ACCESSORIES AND SPARE PARTS. | SET | 50 | : |

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MINISTRY OF OIL

SHEET NO.: 30 OF 43

ESTABLISHMENT NAME: SOUTH OIL COMPANY
LOCATION: ALL AREAS
CRUDE OR FLOW LINES FOR ALL SITES ACTIVITY NO. (30):

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|------|---|
| 08-7-30-0550 | - PIPE LINES SEAMLESS 5LX X-60 OF 6" AND 8" & 10" DIAMETERS COATED WITH EXTRUDED POLYETHYLENE COAT OF 3 MM THICKNESS. | KM. | 400 | Equipment for connection and completion of existing wells mainly in S Rumailah. |
| 08-7-30-0551 | - VALVES BALL, GATE AND CHECK, CLASS 900 AND 600 AND ACCESSORIES OF 6, 8, 10" SIZE. | NOS. | 1500 | = |
| 08-7-30-0552 | - PIPE FITTING INCLUDING FLANGES, ELBOWS, TEES, SMALL VALVES, REDUCERS, WELDOLETS, COUPLING, BOSSES, GASKETS, STUDBOLTS, TEMP. GAUGES, PRESSURE GAUGES EACH SET CONSISTS OF 250 ITEMS. | SET | 50 | = |
| 08-7-30-0553 | - CONSUMABLES AND CONSTRUCTION TOOLS. EACH LOT CONSIST OF 100 ITEMS. | LOT | 4 | |
| 08-7-30-0554 | - SERVICE AND HANDLING EQUIPMENT | SET | 10 | ** |

ESTABLISHMENT NAME: SOUTH OIL COMPANY

LOCATION: NORTH RUMAILA

RUMAILA OIL FIELD DS4 AND DS5 DEGASSING BANKS CONTINUATION OF THE UPGRADING OF NORTH

SHEET NO.: 31 OF 43

ACTIVITY NO. (31):

| CODE | ITEM DESCRIPTION | LIND | QTY | COMMENT |
|--------------|---|------|-----|--|
| 08-7-31-0555 | GAS OIL DEGASSING BANK OF 100 000 B/D CAPACITY INCLUDING ALL SEPARATORS AND VESSELS, STEEL PLATES AND STRUCTURE WITH INTERNAL AND EXTERNAL ACCESSORIES FOR DS4 AND DS5. | SET | 20 | Further developement and repair of degassing banks at DS-4 and DS-5 (N Rumailah) |
| 08-7-31-0556 | INTERCONNECTING PIPING NETWORK COMPLETE WITH ALL VALVES AND FITTING FOR DS4 AND DS5. | SET | 10 | = |
| | COMPLETE PACKAGE OF INSTRUMENT AND CONTROL SYSTEM COMPLETE WITH ALL CABLING AND ACCESSORIES. | SET | . 4 | 2 |
| 08-7-31-0557 | FLARE SYSTEM WITH KNOCK OUT DRUMS AND FLARE STACK, FOR DS4 AND DS5. | SET | 10 | = |
| 08-7-31-0558 | ELECTRICAL SYSTEM. EACH SET CONSISTS OF 100 ITEM. | SET | 2 | Ε |

LOCATION: NORTH RUMAILA OIL FLOW LINES AND MANIFOLDS ACTIVITY NO. (32):

| CODE | ITEM DESCRIPTION | ALO. LIND | YTQ. | COMMENT |
|--------------|---|-----------|------|-------------------------------|
| | PIPE LINE API 5LX GR. B, X-60 OF 18", 16", 14", 10", 8" | | | Flow lines and pipework for N |
| 08-7-32-0559 | DIAMETER COATED WITH EXTRUDED POLLY-ETHYLENE | KM | 009 | Kumanan. |
| | COATING OF 3 MM THICKNESS. | | | |
| 08-7-32-0560 | VALVES (BALL, GATE AND CHECK) CLASS 900 AND 600. | NOS. | 2000 | = |
| | PIPE FITTING INCLUDING FLANGES, ELBOWS, TEES, | | | 44 |
| 08-7-32-0561 | REDUCERS, GASKETS, STUD BOLTS AND ACCESSORIES. | SET | 20 | |
| | EACH SET CONSIST S OF 100 ITEMS. | | | |
| 08-7-32-0562 | OIL PRODUCTION, TEST & DRAIN MANIFOLDS | SET | 10 | = |
| -000 FC 1 00 | | | | |

ESTABLISHMENT NAME: SOUTH OIL COMPANY MINISTRY OF OIL

SHEET NO.: 32 OF 43

LOCATION: ALL AREAS

REPLACEMENT OF OIL FLOW TANKS AND STORAGE TANKS AND FIRE WATER TANKS

ACTIVITY NO. (33):

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|------|-----|---|
| | FLOATING ROOF TANKS OF 28000/20000 m³ CAPACITY FOR BAZERGAN STATION. COMPLETE WITH ALL STEEL PLATES AND STRUCTURE WITH INTERNAL AND EXTERNAL ACCESSORIES COMPLETE WITH ALL COMPLEMENTARY SYSTEM WHICH INCLUDES: INTERCONNECTING PIPING, MOTORIZED VALVES, FITTING AND ACCESSORIES FOR INSTRUMENTATION AND CONTROL PACKAGES, ELECTRICAL SYSTEM WITH CATHODIC PROTECTION, CONSUMABLES AND CONSTRUCTION TOOLS EACH SET CONSISTS OF 500 ITEMS. | SET | 10 | Materials to construct 4 floating roof tanks (2*28,000 cubes, 2*20,000 cubes) to replace damaged tanks. |
| 08-7-33-0564 | FLOW TANK FIXED ROOF OF 5000 M° CAPACITY CONSISTING OF ALL STEEL PLATES AND STRUCTURES WITH INTERNAL AND EXTERNAL ACCESSORIES, COMPLETE WITH ALL COMPLEMENTARY SYSTEMS INCLUDING:- PIPING NETWORK WITH VALVES AND FITTING INSTRUMENT AND CONTROL PACKAGES ELECTRICAL SYSTEM, FLARE SYSTEM WITH ALL ACCESSORIES AND SPARE PARTS. | SET | vo. | Materials for 5*5000 cube crude oil flow tanks (1 at Mishri/Hamman, 2 at Qu and 2 at Sham) |
| 08-7-33-0565 | WATER TANK, FIXED ROOF OF 3000 M3 CAPACITY INCLUDING ALL PLATES AND STRUCTURE/ STEEL & INTERNAL AND EXTERNAL ACCESSORIES WITH ALL PIPING GAUGES, SWITCHES, VALVES ETC. | SET | 2 | Materials for 2 *3000 cube fixed roof water tanks for fire fighting purposes |
| 08-7-33-0566 | CONSUMABLES AND CONSTRUCTION TOOLS. HANDLING AND SERVICE EQUIPMENT. EACH SET CONSIST OF 150 ITEMS | LOT | 2 2 | Consumables and mechanical items for above |
| | OF 250 LIEWS. | | | |

MINISTRY OF OIL
ESTABLISHMENT NAME: SOUTH OIL COMPANY
LOCATION: SUBBA

REVAMPING OF SUBBA DEGASSING STATION NO.1

SHEET NO.: 33 OF 43

ACTIVITY NO. (34):

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SHEET NO.: 34 OF 43

MINISTRY OF OIL

ESTABLISHMENT NAME: SOUTH OIL COMPANY
LOCATION: LUHAIS
LUHAIS DEGASSING STATION NO.2
ACTIVITY NO. (35):

| DEGASSING STATION CONSISTING OF GAS / OIL DEGASSING BANK OF 60 000 M3/HR AND TEST BANK WITH ALL COMPLEMENTARY SYSTEMS AND ACCESSORIES WHICH INCLUDE: - FLOW LINES - GAS / OIL SEPARATORS - GAS / OIL SEPARATORS - CONTROL AND INSTRUMENTATION - ELECTRICAL FEEDING, GENERATION & - FLANE SYSTEM - FLAW TANKS - FIRE FIGHTING SYSTEM - ALL PIPING WORK, VALVES. | DEGASSING STATION CONSISTING OF GAS / OIL DEGASSING | **** | | |
|--|---|------|----|---|
| | F 60 000 M3/HR AND TEST BANK WITH ALL | | | Materials for complete replacement of Luhais degassing |
| | MENTARY SYSTEMS AND ACCESSORIES WHICH | | | Station No 2. |
| | ., | | | |
| | W LINES | | , | |
| | TEOLDS | | | |
| | /OIL SEPARATORS | | | |
| | TROL AND INSTRUMENTATION | | | |
| | CTRICAL FEEDING, GENERATION & | SET | 20 | |
| - FLARE SYSTEM - FLOW TANKS - FIRE FIGHTING SYSTEM - ALL PIPING WORK, VALVES. | RIBUTION SYSTEM. | | } | |
| - FLOW TANKS - FIRE FIGHTING SYSTEM - ALL PIPING WORK, VALVES. | RE SYSTEM | | | |
| - FIRE FIGHTING SYSTEM - ALL PIPING WORK, VALVES. | W TANKS | | | |
| - ALL PIPING WORK, VALVES. | HIGHTING SYSTEM | | | |
| Salut II V II Chiaia | PIPING WORK, VALVES. | | | |
| - FIFTING FACILITIES. | NG FACILITIES. | | | |
| - ALL ACCESSORIES | ACCESSORIES | | | |
| (EACH SET CONSIST OF 250 | CH SET CONSIST OF 250 ITEMS) | · | | |

ESTABLISHMENT NAME: SOUTH OIL COMPANY

SHEET NO.: 35 OF 43

LOCATION: WEST QURNA

COMPLEMENTARY SYSTEMS FOR CRUDE OIL PRODUCTION FOR DG. STATION (DS6)

ACTIVITY NO. (36):

| CODE | ITEM DESCRIPTION | UNIT | QTY. | COMMENT |
|--------------|---|------|------|---|
| 08-7-36-0570 | FLOW TANKS 5000m ³ FOR CRUDE OIL | NOS. | 4 | Materials and equipment for 4*5000 cube storage tanksand associated equipment for Westb Qurna DS-6 |
| 08-7-36-0571 | PUMPS, VARIOUS SIZES | LOT | 10 | = |
| 08-7-36-0572 | FLOW LINES, VALVES, FITTINGS | ITEM | 100 | = |
| 08-7-36-0573 | GAS TURBINE GENERATOR | NOS. | 7 | = |
| 08-7-36-0574 | CABLES, ELECTRICAL EQUIPMENT & ACCESSORIES | ITEM | 09 | - |
| 08-7-36-0575 | INSTRUMENTATION EQUIPMENT | ITEM | 70 | = |
| 08-7-36-0576 | CONTROL SYSTEM | LOT | 2 | = |
| 08-7-36-0577 | FIRE FIGHTING EQUIPMENT | LOT | 1 | = |
| 08-7-36-0578 | EMERGENCY DIESEL GENERATORS | SET | 3 | - |

LOCATION: MESSAN OIL FIELD NEW PUMPING STATION FOR BUZERGAN-FAO CRUDE OIL PIPELINE

ACTIVITY NO. (37):

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|------|-----|---|
| 08-7-37-0579 | ELECTRICAL DRIVEN CRUDE OIL PUMPING SETS OF 200 000 B/D PUMPING RATE. COMPLETE WITH MOTOR, COUPLING, PUMP AND ALL ELECTRICAL AND CONTROL PACKAGES AND VALVES, WITH ALL ACCESSORIES AND SPARE PARTS. | SET | က | Replacement of turbine pumps at Messan field |
| 08-7-37-0580 | ELECTRICAL FEEDING AND SWITCHGEAR AND MCC PANELS FOR THE ABOVE PUMP SETS. | SET | 2 | Associated equipment for above |

ESTABLISHMENT NAME: SOUTH OIL COMPANY

SHEET NO.: 36 OF 43

LOCATION: MESSAN

PILOT PROJECT FOR MISSAN EXPERIMENTAL WATER INJECTION

ACTIVITY NO. (38):

| CODE | ITEM DESCRIPTION | UNIT | UNIT QTY | COMMENT |
|--------------|--|------|----------|---|
| 08-7-38-0581 | WATER TREATMENT AND FILTERING UNIT OF 5000 M3 / DAY CAPACITY, COMPLETE WITH ALL NECESSARY SYSTEMS OF ELECTRICAL, CONTROL, PIPING, PUMPING CHEMICAL INJECTION PACKAGE, STORAGEETC | SET | . 10 | Project for experimental water injection system at Missan field. |
| 08-7-38-0582 | PUMPING SET. | SET | 5 | 1 |
| 08-7-38-0583 | TRANSFER PIPELINE OF 12" DIA. OF API 5LX-X-62 COATED WITH 3MM POLYETHYLENE. EACH SET CONSISTS OF 100 ITEM. | KM | 30 | - |

LOCATION: WEST QURNA

COMPLEMENTARY SYSTEM FOR CRUDE OIL PRODUCTION, WEST QURNA DEGASSING STATION 7 & 8

ACTIVITY NO. (39):

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|-----|--|
| 08-7-39-0584 | DEGASSING BANKS CONSISTING OF 3-STAGE SEPARATORS INCLUDING ALL STEEL PLATES AND STRUCTURES WITH INTERNAL AND EXTERNAL ACCESSORIES. | SET | 12 | Equipment for degassing banks at West Qurna allowing additional throughput |
| 08-7-39-0585 | PIPING NETWORK, INCLUDING PIPING VALVES, FITTING AND ACCESSORIES. | SET | 4 | |
| 08-7-39-0586 | PUMPING SETS, COMPLETE. | SET | 10 | |
| 08-7-39-0587 | CONSUMABLES INCLUDING WELDING RODS & GRINDERS. | LOT | 2 | |
| 08-7-39-0588 | HANDLING AND SERVICE EQUIPMENT | SET | 10 | |

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MINISTRY OF OIL

SHEET NO.: 37 OF 43

ESTABLISHMENT NAME: SOUTH OIL COMPANY LOCATION: ALL AREAS CONSTRUCTION EQUIPMENT

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|------|-------|---|
| 08-7-00-0589 | ELECTRODE DRYING OVEN AND PORTABLE GRINDING MACHINES | NOS. | 300 | Mechanical equipment and spares for construction sites throughout South area. |
| 0650-00-2-80 | CUTTING MACHINES | NOS. | 20 | Ε |
| 08-7-00-0591 | AC - WELDING POWER MACHINE AND STEAM CLEANERS | NOS. | 20 | Ε. |
| 08-7-00-0592 | WELDING & GRINDING ACCESSORIES | NOS. | 25000 | ± |
| 08-7-00-0593 | PUMPS FOR PIPE LINE MAINTENANCE | NOS. | 15 | = |
| 08-7-00-0594 | PIPE BENDER SETS | SET | 20 | = |
| 98-7-00-0595 | HYDRAULIC TORQUE WRENCHES WITH ACCESSORIES | SET | 30 | E |
| 9650-00-2-80 | CONCRETE MIXER | NOS. | 10 | н |
| 2650-00-2-80 | AIR COMPRESSORS DIESEL ENGINE DRIVEN. | NOS. | 10 | 11 |
| 8650-00-2-80 | JACKHAMMERS WITH ACCESSORIES | ITEM | 10 | 11 |
| 6650-00-2-80 | SIDEBOOMS, MOBILE WORKSHOP | NOS. | 10 | 11 |
| 0090-00-2-80 | WELDING ELECTRODES. | TON | 400 | 11 |

MINISTRY OF OIL ESTABLISHMENT NAME: SOUTH OIL COMPANY

SHEET NO.: 38 OF 43

LOCATION: ALL AREAS

WORKSHOP EQUIPMENT, TOOLS AND SPARES

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|-----|---|
| 08-7-00-0601 | SPARE FOR SCHOU CYLINDER BLOCK BORING M/C | NOS. | 26 | Sapres and workshop equipment for use in all sites in South area. |
| 08-7-00-0602 | GUILLOTINE SHEAR TYPE TS - H40 - 25 · | NOS. | 4 | = |
| 08-7-00-0603 | CIRCULAR SAW BLADES | NOS. | 3 | = |
| 08-7-00-0604 | DIGITAL THICKNESS GAUGES | NOS. | 2 | = |
| 99-1-00-2 | ADJUSTABLE FILLET MEASUREMENT | NOS. | 5 | = |
| 9090-00-2-80 | CAMBRIDGE TYPE MEASUREMENT UNDER CUT WELD | NOS. | 5 | = |
| 2090-00-2-80 | REMOTE CONTROL GAS MOTORIZED CUTTER | NOS. | 1 | = |
| 8090-00-2-80 | AUTOMATIC GAS PIPE HOLE M/C CUTTER | NOS. | 1 | = |
| 6090-00-2-80 | COMBINED SPOT AND PROJECTOR WELDING M/C | NOS. | | = |
| 08-7-00-0610 | PORTABLE HAND GAS CUTTING M/C | NOS. | 2 | н |
| 08-7-00-0611 | PORTABLE A. C. WELDING M/C 5 KVA ENGINE DRIVEN | NOS. | 10 | = |
| 08-7-00-0612 | DYNAMIC BALANCE MACHINES | NOS. | 2 | = |
| 08-7-00-0613 | HOT WATER HIGH PRESSURE CLEANER | NOS. | 2 | = |
| 08-7-00-0614 | D. C. BATTERY CHARGER | NOS. | 2 | 11 |
| 08-7-00-0615 | LATHE & DRILLS M/C | NOS. | 9 | = |
| 08-7-00-0616 | NOTCHER M/C FOR FABRICATION PLATES BARS & ANGLES | NOS. | 1 | |
| 08-7-00-0617 | HORIZONTAL BENDING AND STRAIGHTENING PRESS | NOS. | 1 | 11 |
| 08-7-00-0618 | MULTI PURPOSE M/C (CUTTING, PUNCHING & BENDING) | NOS. | 1 | = |
| | | | | |

ESTABLISHMENT NAME: SOUTH OIL COMPANY

SHEET NO.: 39 OF 43

LOCATION: ALL AREAS WORKSHOP EQUIPMENT, TOOLS & SPARES

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|------|--|
| 08-7-00-0619 | SPARE PARTS FOR DIESEL ENGINE DRIVE ROLLS-ROYCE GENERATORS | NOS. | 50 | Generator and compressor spare parts for all areas in the South. |
| 08-7-00-0620 | SPARE PARTS FOR DIESEL ENGINE DRIVE CATERPILLAR GENERATORS | NOS. | 50 | = |
| 08-7-00-0621 | SPARE PARTS FOR DIESEL ENGINE DRIVE CUMMINS GENERATORS | NOS. | 40 | |
| 08-7-00-0622 | SPARE PARTS FOR ATLAS COPCO AIR COMPRESSOR | NOS. | 20 | |
| 08-7-00-0623 | SPARE PARTS FOR WELDING MACHINE | NOS. | 50 | 84 |
| 08-7-00-0624 | SPARE PART FOR HOT TAPPING MACHINE | ITEM | 1000 | u |
| | | | | |

MINISTRY OF OIL ESTABLISHMENT NAME: SOUTH OIL COMPANY

SHEET NO.: 40 OF 43

LOCATION: LUHAIS FIELD
LUHAIS NATURAL GAS UTILIZATION UNIT

ACTIVITY NO. (40):

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|------|-----|--|
| | TREATMENT PACKAGE OF 1ST STAGE GAS FEEDING, DEHYDRATION AND TRANSPORTATION WITH ALL COMPLEMENTARY SYSTEM & ACCESSORIES CONSISTING | | | Dehydration package for 1st stage gas treatment Luhais degassing station |
| | OF: - IST STAGE FEED GAS SEPARATOR UNITS | | | = |
| | GAS DEHYDRATION UNIT COMPLETE WITH ALL | | | ÷ |
| 08-7-40-0625 | HEAT EXCHANGERS AND REGENERATION TINITS RTC | SET | 20 | ŧ |
| | - GAS COOLERS | | | = |
| | - INSTRUMENT AND CONTROL PACKAGE | | | = |
| | K. O DRUMS | | | = |
| | INTER CONNECTING PIPING, FITTING, VALVES | | | - |
| | - ALL NECESSARY ACCESSORIES AND SPARE PARTS | | • | # |
| | (EACH SET CONSISTS OF 100 ITEMS) | | | ŧ |
| 08-7-40-0626 | PIPE FITTING , VALVES & ACCESSORIES EACH SET CONSISTS OF 100 ITEM | SET | 3 | - |

ESTABLISHMENT NAME: SOUTH OIL COMPANY LOCATION: NAHAR UMAR

SHEET NO.: 41 OF 43

ACTIVITY NO. (41):

| CODE | ITEM DESCRIPTION | UNIT | QTY | |
|--------------|--|------|-----|---|
| | TREATMENT PACKAGE OF 1ST STAGE GAS FEEDING, DEHYDRATION AND TRANSPORTATION WITH ALL COMPLEMENTARY SYSTEMS & ACCESSORIES CONSISTING | | | Dehydration package for 1st stage gas treatment Hahar Umar degassing station to improve |
| | OF: - 1ST STAGE FEED GAS SEPARATOR UNITS | | | distribution network |
| | - GAS DEHYDRATION UNIT COMPLETE WITH ALL COMPLEMENTARY DEVICES, PUMPS. | | | ŧ |
| 08-7-41-0627 | - HEAT EXCHANGERS AND REGENERATION UNITETC | SET | 20 | £ |
| | - GAS COOLERS | | | * |
| | - INSTRUMENT AND CONTROL PACKAGE | | | = |
| | - K.O DRUMS | | | |
| | - INTER CONNECTING PIPING, FITTING, VALVES | | | = |
| | - ALL NECESSARY ACCESSORIES AND SPARE PARTS | | | * |
| | (EACH SET CONSISTS OF 100 ITEMS) | | | |
| 08-7-41-0628 | TRUNK PIPE LINES OF 24", 20", 16" DIAMETERS 5 LX-X 60 COATED WITH POLYETHYLENE OF 3 MM THICKNESS. | KM | 30 | Connecting lines for above |
| 08-7-41-0629 | PIPE FITTING, VALVES AND ACCESSORIES. EACH SET CONSISTS OF 100 ITEM | SET | 30 | = |
| | | | | |

ESTABLISHMENT NAME: SOUTH OIL COMPANY

SHEET NO.: 42 OF 43

LOCATION: SOUTH RUMAILA

UPPER SHELL EXPERIMENTAL WATER INJECTION STUDY

ACTIVITY NO. (42):

| CODE | ITEM DESCRIPTION | UNIT | QTY | UNIT QTY COMMENT |
|--------------|--|------|-----|---|
| 08-7-42-0630 | POLISHING FILTERING UNIT OF 750 M³/HR DESIGN EACH SET CONSISTS OF 100 ITEMS INCLUDING: MULTIMEDIA FILTERS, CHEMICAL INJECTION PACKAGE, CONNECTING PIPING, VALVES AND FITTING, AIR BLOWERS, ELECTRICAL MCC BOARD, CABLING AND COMPLETE PACKAGE OF INSTRUMENT AND CONTROL WITH ALL ACCESSORIES AND SPARE PARTS | SET | 10 | Equipment for filtration unit for water injection |
| 08-7-42-0631 | WATER INJECTION MANIFOLDS OF (15) BRANCHES, SKID MOUNTED, COMPLETED WITH ALL ISOLATING, REGULATING VALVES AND CHECK VALVES. | SET | П | Water injection manifolds |

LOCATION: INDUSTRIAL COMPLEX-ZUBAIR

| CODE | ITEM DESCRIPTION | UNIT | ХLÒ | COMMENT |
|--------------|---|------|-----|---------------------------------|
| 08-7-00-0632 | ELECTRIC OVERHEAD TROLLY CRANES, 10 TON CAPACITY (DOUBLE GIRDER TYPE) | NOS. | 2 | Mechanical heavy lift equipment |

SHEET NO.: 43 OF 43

ESTABLISHMENT NAME: SOUTH OIL COMPANY LOCATION: ALL FIELDS

ENGINEERING INSPECTION EQUIPMENT

| | | UNIT | QTY | COMMENT |
|-------------|---|------|-----|--|
| | TANK BOTTOM INSPECTION TOOL BASED ON MAGNETIC FLUX LEAKAGE METHOD. THE EQUIPMENT SHALL BE CAPABLE TO MEASURE THE REMAINING WALL THICKNESS OF TANK BOTTOM AND SIZE PITTING WITH HIGH ACCURACY WITH ALL ACCESSORIES AND SPARE PARTS | NOS. | 77 | Equipment for electronic NDT inspection and leak detection |
| | HYDROSTATIC TEST EQUIPMENT CONSISTING OF: | | | |
| | DEAD WEIGHT TESTER TO MEASURE HYDROSTATIC PRESSURE OF PIPELINES UP TO 5000 PSI WITH A MINIMUM ACCURACY OF 0.1 PSI WITH ALL ACCESSORIES AND SPARE PARTS. | NOS. | 2 | Pipe integrity testing equipment |
| | PRESSURE RECORDER TO RECORD HYDROSTATIC PRESSURE OF PIPELINE UP TO 5000 PSI, WITH ALL ACCESSORIES AND SPARE PARTS. | NOS. | 2 | = |
| <u> </u> | TEMPERATURE RECORDER TO RECORD TEMPERATURE OF WATER OF PIPELINE DURING HYDROSTATIC TEST WITH ALL ACCESSORIES AND SPARE PARTS. | NOS. | 7 | z |
| × | X-RAY FILMS, CHEMICALS & PROCESSING UNIT: | | | |
| F R R R R R | FILM PROCESSING UNIT WITH GREY PVC WATER JACKET WITH POLYSTYRENE INSULATION ENCASED IN HIGH GRADE POLYWOOD WITH GREY PVC PANELING, COMPLETE WITH TANKS, LIDS, WASH AND RINSE COMPARTMENTS. 650W IMMERSION HEATER, THERMOMETER AND TEMPERATURE CONTROLLER. | NOS. | 2 | NDT inspection equipment requirements for all areas. |
| 7 | AGFA FILM WITH LEAD ROLLPACK D7 WITH LEAD 100 MM X 90M MANUFACTURED NOT BEFORE THE MID OF 1999. | NOS. | 200 | E |
| | AGFA G-230 DEVELOPER POWDER 4X10 LIT. | NOS. | 200 | 2 |
| | AGFA G-305 FIXER POWDER 4X10 LIT. | NOS. | 200 | ð ē |

MINISTRY OF OIL ESTABLISHMENT NAME: IRAQ DRILLING COMPANY LOCATION: BASRAH AND KIRKUK

SHEET NO.: 1 OF 2

| CODE | ITEM DESCRIPTION · | UNIT | QTY | COMMENT |
|------------------|--|------|--------|--|
| 0020-00-2-80 | SPARE PARTS FOR DRILLING & WORK OVER RIGS | NOS. | 100000 | Spares for drilling and workover requirements in both North and South areas. |
| 08-7-00-0701 | DRILLING & WORK OVER RIGS | NOS. | 4 | New rigs for above |
| 08-7-00-0702 | UPGRADING OF POWER SYSTEM FOR DRILLING RIGS | SET. | 5 | Power supply requirements |
| 08-7-00-0703 | EQUIPMENT & HANDLING TOOLS FOR DRILLING AND WORK OVER RIGS | NOS. | 2000 | Handling equipment |
| 08-7-00-0704 | MOBILE WORKSHOP | NOS. | 2 | Workshop for repairs "on-site. |
| 92-00-02-00-02-0 | LORRY 12 & 16 TONS | NOS. | 30 | Transportation requirements |
| 9020-00-2-00 | LIGHT VEHICLES (PICK UP) AND BUSES 25 & 45 SEATERS | NOS. | 100 | Spares and equipment for transportation. |
| 20-00-2-00-020 | TRUCK WITH LOADER & TRAILER/FIELD TRUCKS 50 TONS | NOS. | 33 | Trucks with low loaders for field transportation |
| 8020-00-2 | TANKERS FOR WATER & FUEL | NOS. | 15 | Tankers |
| 60-00-0-00-0 | RECOVERY TRUCK | NOS. | 4 | Recovery vehilce |
| 08-7-00-0710 | CRANES 25 & 30 TONS | NOS. | 16 | Lifting equipment |
| 08-7-00-0711 | FORKLIFT 15 TONS | NOS. | 2 | = |
| 08-7-00-0712 | DUMPER | NOS. | 2 | Refuse collection and movement |
| 08-7-00-0713 | SPARE PARTS FOR HEAVY VEHICLES | NOS. | 30000 | Spares |
| 08-7-00-0714 | TYRES & BATTERIES | NOS. | 2000 | r. |
| 08-7-00-0715 | DRILL PIPE & DRILL COLLAR | NOS. | 3500 | ± |

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MINISTRY OF OIL ESTABLISHMENT NAME: IRAQ DRILLING COMPANY LOCATION: BASRAH AND KIRKUK

SHEET NO: 2 OF 2

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|------|-------|--|
| 08-7-00-0716 | WELDING MACHINES | NOS. | 25 | Field equipment for use by IDC throughout North and South areas. |
| 08-7-00-0717 | MUD PUMPS FOR RIGS | NOS. | 8 | = |
| 08-7-00-0718 | SAFETY AND INSPECTION EQUIPMENT | NOS. | 00009 | = |
| 08-7-00-0719 | PERSONAL COMPUTER | NOS. | 20 | - |
| 08-7-00-0720 | DESALINATION SYSTEM FOR DRILLINGS CAMPS | NOS. | 10 | |
| 08-7-00-0721 | DRILLING CAMPS FOR 104 PERSONS | NOS. | 4 | - |
| 08-7-00-0722 | TOOL PUSHER CARAVAN (OFFICE) | NOS. | 10 | - |
| 08-7-00-0723 | WORK SHOP EQUIPMENTS & HAND TOOLS | NOS. | 20000 | - |
| 08-7-00-0724 | MUD LOGGING UNITS | UNIT | 2 | = |

MINISTRY OF OIL ESTABLISHMENT NAME: OIL PROJECTS COMPANY (SCOP)

SHEET NO.: 1 OF 6

LOCATION: ALL SITES CONSTRUCTION EQUIPMENT

| COMMENT | Vehicles required fro maintenance of pipeline systems | = | = | = | = | *** | ** | 40- | = | = | = |
|------------------|--|--|---|--|---|---|--|--|--|---|---|
| QTY | 9 | ß | 1 0 | 10 | ĸ | S | 4 | S | 5 | S | S |
| UNIT | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. |
| ITEM DESCRIPTION | CRANES HYDRAULIC TRUCK MOBILE: 50 & 120TONS WITH RECOMMENDED SPARE PARTS | CRAWLER HYDRAULIC EXCAVATORS WITH DIESEL ENGINE. WITH 1.0 CU.M. BUCKET SIZE WITH RECOMMENDED SPARE PARTS | LORRY WITH CRANE WITH RECOMMENDED SPARE PARTS | TIPPER (DUMP) TRUCKS WITH RECOMMENDED SPARE PARTS. | DRINKING WATER TANKER WITH RECOMMENDED SPARE PARTS | FUEL TANKER WITH RECOMMENDED SPARE PARTS. | RECOVERY & LUBRICATING TRUCK WITH RECOMMENDED SPARE PARTS. | TRACK-TYPE TRACTORS (BULLDOZER) WITH RECOMMENDED SPARE PARTS | WHEEL LOADER WITH HYDRAULIC DRIVE HP WITH RECOMMENDED SPARE PARTS. | GRADER WITH HYDRAULIC DRIVE WITH RECOMMENDED SPARE PARTS | SIDE BOOM572 WITH RECOMMENDED SPARE PARTS |
| CODE | 08-7-00-0750 | 08-7-00-0751 | 08-7-00-0752 | 08-7-00-0753 | 08-7-00-0754 | 08-7-00-0755 | 08-7-00-0756 | 08-7-00-0757 | 08-7-00-0758 | 08-7-00-0759 | 09/0-00-/-80 |

ESTABLISHMENT NAME: OIL PROJECTS COMPANY (SCOP)
LOCATION: ALL SITES
CONSTRUCTION EQUIPMENT MINISTRY OF OIL

SHEET NO.:2 OF 6

| OTY COMMENT | | | 50 Welding machines for pipeline construction | Pipe construction machinery | | 10 | For pressurizing lines. | Transportation requirements | 4 | | 12 " | 2 " | |
|------------------|--|---|--|---|--|---|---|--|----------------|--------------|--|-----------------------|---------------------------------------|
| UNIT O | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. 2 | NOS. | NOS. 2 | NOG |
| ITEM DESCRIPTION | DEWATERING PUMP DIESEL DRIVEN ENGINE WITH RECOMMENDED SPARE PARTS, | WELDING MACHINES DIESEL DRIVEN WITH RECOMMENDED SPARE PARTS SKID MOUNTED. | ELECTRICAL WELDING MACHINE WITH RECOMMENDED SPARE PARTS. | PIPELINE BORING MACHINE WITH RECOMMENDED SPARE PARTS. | CLAMPS INTERNAL VARIOUS SIZES WITH RECOMMENDED SPARE PARTS | FORK LIFTS TONS WITH RECOMMENDED SPARE PARTS. | PORTABLE ROTARY SCREW COMPRESSOR WITH WATER COOLED ENGINE MAX WORKING PRESSURE (7-12) BAR WITH RECOMMENDED SPARE PARTS. | TEST PUMP HORIZONTAL TRIPLEX PISTON PUMP WITH RECOMMENDED SPARE PARTS. | DUMPER (2-3M³) | TRACTOR | TRUCK TRACTOR (6x4)-PAY LOAD 50 TONS & 80 TONS | TRUCK CONCRETE MIXER. | SENAT TO ATT ED BOD CENTENT CONTAINED |
| CODE | 08-7-00-0761 | 08-7-00-0762 | 08-7-00-0763 | 08-7-00-0764 | 5920-00-2-80 | 9920-00-2-80 | 7920-00-2-80 | 8920-00-2-80 | 6920-00-2-80 | 08-7-00-0770 | 08-7-00-0771 | 08-7-00-0772 | CETO OO T OO |

SHEET NO.: 3 OF 6

ESTABLISHMENT NAME: OIL PROJECTS COMPANY (SCOP)

LOCATION: ALL SITES

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| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|----------------------|------|-----|---|
| 08-7-00-0774 | DOUBLE CABIN PICK UP | NOS. | 50 | Transport requirements for SCOP personnel |
| 08-7-00-0775 | MINI BUS | NOS. | 25 | = |

LOCATION: ALL SITES SPARE PARTS FOR CONSTRUCTION MACHINERY

| Ļ | CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|---------|--------------|--|------|-----|------------------------------------|
| <u></u> | 9/2-00-2-80 | - SPARE PARTS FOR MAINTENANCE OF SIDE BOOM CAT.583, 572,571/ FIATELIS/ KOMATSU | ITEM | 300 | Spare parts for equipment as noted |
| | 08-7-00-0777 | - SPARE PARTS FOR MAINTENANCE OF BULLDOZERS/ CATD9, D8, D7/ FIATELIS/ KOMATSU/ FIATELIS | ITEM | 150 | : |
| | 08-7-00-0778 | - SPARE PARTS FOR MAINTENANCE OF SHOVELS/LIEBHER, CATARPILLER | ITEM | 200 | £ |
| | 08-7-00-0779 | SPARE PARTS FOR MAINTENANCE OF GRADERS /CAT. | ITEM | 30 | • |
| 1 | 08-7-00-0780 | - SPARE PARTS FOR MAINTENANCE OF EXCAVATORS LIEBHER/CASE 9033,POCLAIN, KATO | ITEM | 100 | = |
| | 08-7-00-0781 | - SPARE PARTS FOR MAINTENANCE OF CRANES, TADANO/P & H LIEBHER, DEMAC | ITEM | 200 | = |
| ** | 08-7-00-0782 | - SPARE PARTS FOR MAINTENANCE OF RC/EVANS EQUIPMENT. | ITEM | 100 | = |
| | 08-7-00-0783 | - SPARE PARTS FOR MAINTENANCE OF WELDING MACHINES LINCOLN. | ITEM | 100 | Ε. |
| | 08-7-00-0784 | - SPARE PARTS FOR MAINTENANCE LIGHT FIELD VEHICLE OF TOYOTA, MITSUBISHI & NISSAN | ITEM | 400 | = |

MINISTRY OF OIL ESTABLISHMENT NAME: OIL PROJECTS COMPANY (SCOP)

SHEET NO.: 4 OF 6

LOCATION: ALL SITES

SPARE PARTS FOR CONSTRUCTION EQUIPMENT

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|-----|---|
| 08-7-00-0785 | - SPARE PARTS FOR MAINTENANCE OF WATER PUMPS KSB | ITEM | 100 | Mechanical spare parts for construction related equipment |
| 98-0-00-2-80 | - SPARE PARTS FOR COMPRESSORS/ATLAS COPCO/AIR MAN | ITEM | 09 | 2 |
| 08-7-00-0787 | - SPARE PARTS FOR FORK LIFT, YALE | ITEM | 09 | Ξ |
| 08-7-00-0788 | - SPARE PARTS FOR HEAVY TRUCKS DAEWOO, IVECO | ITEM | 200 | = |
| 08-7-00-0789 | - SPARE PARTS FOR MAINTENANCE OF DIESEL BUSES (SCANIA & NISSAN). | ITEM | 150 | 2 |

LOCATION: ALL SITES TYRES FOR CONSTRUCTION EQUIPMENT

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|------|--|
| 06-1-00-1-80 | - TYRES FOR CONSTRUCTION EQUIPMENT VARIOUS SIZES | NOS. | 2200 | Tyres for transportation and construction equipment. |

MINISTRY OF OIL ESTABLISHMENT NAME: OIL PROJECTS COMPANY (SCOP)

SHEET NO.: 5 OF 6

LOCATION: ALL SITES

CONSTRUCTION CONSUMABLES

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|-----|---|
| 08-7-00-0791 | - PIPELINE LAYING ACCESSORIES AND CONSUMABLES | ITEM | 30 | Construction equipment for pipelaying, and consumables. |
| 08-7-00-0792 | - TANK OVERHAUL & MAINTENANCE ACCESSORIES AND ITEM CONSUMABLES | ITEM | 40 | - |
| 08-7-00-0793 | - WORKSHOP TOOLS & EQUIPMENT | ITEM | 20 | = |
| 08-7-00-0794 | - WELDING ELECTRODES | TON | 100 | = |

LOCATION: ALL SITES INSPECTION EQUIPMENT, MATERIALS & TOOLS

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|-----------------|--|------|-----|---|
| 08-7-00-0795 | - X-RAY EQUIPMENT | SET | 7 | NDT requiremenys for pipe and tank inspection |
| 9620-00-2-80 | - ACCESSORIES OF RADIOGRAPHIC INSPECTION OF WELDED JOINTS (FILMS, CHEMICALS ,SAFETY EQUIPMENT) | ITEM | 20 | Ξ |
| 7620-00-2 | - ULTRASONIC THICKNESS METER FLOW DETECTOR WITH PROBES, TEST BLOCK AND OTHER ACCESSORIES | ITEM | 4 | 2 |
| 08-7-00-0798 | - DYE PENETRATION MATERIALS | SET | 100 | |
| 66-00-2-00-03-0 | - COATING &PAINT INSPECTION UNITS (HOLIDAY DETECTOR & THICKNESS GAUGE) | ITEM | E | = |
| 08-7-00-0800 | - PORTABLE HARDNESS TESTER | NOS. | - | - |
| 08-7-00-0801 | - WELD SEAM VACUUM TEST DEVICE | NOS. | 10 | |
| 08-7-00-0802 | - ISOTOPE SOURCES .IR 192 (40-100) CURIES. | NOS. | 4 | |

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MINISTRY OF OIL

ESTABLISHMENT NAME: OIL PROJECTS COMPANY (SCOP)

SHEET NO.: 6 OF 6

LOCATION: ENGINEERING OFFICES
DESIGN OFFICE REQUIREMENTS

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|------|---|------|-----|---|
| | ENGINEERING STANDARDS ON C.D. ROMS (API,ASTM, ASME, ANSI, NFPA, ACI,IEC, ASHERE, AASHO, AWWA, CCITTETC). | SET | 7 | Office equipment requirements (as per Phase 6) |
| | ENGINEERING DESIGN SOFTWARE (PROCESS, EQUIPMENT, PIPING, INSTRUMENTATION, ELECTRICAL, CIVIL WORK & ARCHIVING SOFTWARE). | SET | - | Ξ |
| | PROJECT MANAGEMENT SOFTWARE (COSTING, SCHEDULING, QUALITY, ENVIRONMENTAL & CONTRACT) | SET | - | = |
| | PHOTOCOPYING MACHINE FOR DRAWING UP TO (A0) SIZE. | NOS. | T | 2 |
| | SCANNER SIZE (A0) COMPATIBLE TO PC. RESOLUTION MIN 1200x1200 AND RASTER TO VECTOR SOFTWARE ANALYSIS WITH AUTO CAD FILE FORMAT. | NOS. | 1 | - |
| | PORTABLE TEST EQUIPMENT AND INSTRUMENTS (AVOS, CLAMP AMMETERS, AIR FLOW METERS, VIBRATION METERS, EARTH RESISTANCE METER, ETC.) | NOS. | 10 | Test equipment for site use. |
| | MULTI FUNCTION TEST INSTRUMENT FOR CATHODIC PROTECTION SYSTEM. | NOS. | 7 | = |

SHEET NO.: 1 OF 5 LOCATION: NORTHERN, CENTRAL, AND SOUTHERN OIL FIELDS ESTABLISHMENT NAME: OIL EXPLORATION COMPANY MINISTRY OF OIL

| COMMENT | | Equipment for exploration for production support | purposes. For use in S.W. and Central Iraq, and in Western Desert | | 2 | * | | £ | E | 2 | = | = | ŧ | = | E |
|------------------|---|---|--|---|--|----------------------------------|--|---|--|---|---|--|--|---|---|
| QTY | | pod | , | 1 | Ħ | - | 7 | 4 | 10 | 5 | 9 | 2 | 6 | 7 | 2 |
| UNIT | | SET | ı | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. |
| ITEM DESCRIPTION | GEOPHYSICAL FIELD EQUIPMENT AND RELATED UTILITIES FOR OIL FIELDS PRODUCTION ENHANCEMENT CONSISTING OF:- | VSP (VERTICAL SEISMIC PROFILE) RECORDING SYSTEM CONSISTING OF: DOWNHOLE VSP TOOL SETS, CABLE. | WINCH, RECORDING TRUCK SURFACE CONTROL EQUIPMENT, VIBRATOR CONTROL ELECTRONICS, SET OF | SPARES, CONSUMABLES AND ACCESSORIES - LAND GRAVITY METER FOR OILFIELD EXPLORATION | PURPOSES - RESISTIVITY RECEIVER FOR OILFIELD EXPLORATION | PURPOSES - PORTABLE MAGNETOMETER | SEISMIC ENERGY SOURCE VIBRATOR, (4 X 4) WITH | MOBILE DRILLING RIG, MAX. DEPTH 150 MTR. WITH | SPARE PARTS. DIESEL GENERATOR SET 350 - 600 KVA, WITH CONTROL | BOARD, WITH STARE FARIS - MOBILE DIESEL WELDING MACHINE, WITH SPARE | PARIS - RUBBER TANK, 12,000 LTR. WITH ACCESSORIES | BULLDOZER, 150 - 200 HP WITH SPARE PARTS | CARGO TRUCK, 5 TONS CAPACITY, (FOR GEOPHONE | CARGO TRUCK (8 TON PAYLOAD) WITH BODY AND | FITTED CRANE, WITH SPARE PARTS - MARSH BUGGY TRACTOR, WITH FITTED TANK WITH SPARE PARTS |
| CODE | | | | | | | 08-7-00-0820 | | | | * | | | | |

SHEET NO.: 2 OF 5 MINISTRY OF OIL EXPLORATION COMPANY ESTABLISHMENT NAME: OIL EXPLORATION COMPANY

LOCATION: NORTHERN, CENTRAL AND SOUTHERN OIL FIELDS

| COMMENT | = | ŧ | E | = | : | = | : | = | : | | = | . | 2 | 1 | E |
|------------------|--|---|---|----------------------------|--|--|---|--|---|--|------------------------------------|--|--|--------------------------------|--|
| QTY | 2 | 6 | 9 | 23 | 250 | 150,000 | 7 | 2 | y | | - | 8 | 2 | - | 2 |
| UNIT | NOS. | NOS. | NOS. | NOS. | TON | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | LOT | NOS. |
| ITEM DESCRIPTION | - MARSH BUGGY TRACTOR, WITH UTILITY BODY FOR GEOPHONE TRANSPORTATION, WITH SPARE PARTS | - WATER TANKER TRUCK, 8,000 LTR. CAPACITY, WITH SPARE PARTS | - 30 SEATER BUS, DIESEL ENGINE, FOR FIELD WORK PURPOSES, WITH SPARE PARTS | - PICK-UP WITH SPARE PARTS | SEISMIC EXPLOSIVES SPECIFIC FOR SEISMIC SURVEYS OF VEI OCITY 6000 - 6300 MTP/SEC | - DETONATING CAPSULES SPECIFIC FOR THE SEISMIC EVELOCITYES | - LOW-LOADER WITH TRUCK, 40 TON, WITH SPARE PARTS | FUEL TANKER TRUCK, 8 CU.MTR., WITH SPARE PARTS | - TILTBACK TRUCK, 6-8 CU.MTR., WITH SPARE PARTS | - SHOVEL, BUCKET SIZE 1.5 - 2 CU. MTR., ON TYRES, WITH SPARE PARTS | - CRANE, 30 TONS, WITH SPARE PARTS | FORK LIFT, 3 TONS, DIESEL ENGINE, WITH SPARE | FORK LIFT, 5 TONS, DIESEL ENGINE, WITH SPARE | - SPARE PARTS FOR KAMAZ TRUCKS | - DUMPER, 0.5 CU.MTR. BUCKET, DIESEL ENGINE, ON NHEELS, WITH SPARE PARTS |
| CODE | | | | | | | 08-7-00-0851 | | | | | • | | | |

SHEET NO.: 3 OF 5 LOCATION: NORTHERN, CENTRAL, AND SOUTHERN OIL FIELDS ESTABLISHMENT NAME: OIL EXPLORATION COMPANY MINISTRY OF OIL

| COMMENT | Gelogical labs for rock analyses, core, crude oil analysis all for well appraisal | £ | ŧ | : | = | | | 3 | Σ | 2 | | 1 | = | | | = |
|------------------|--|--|--|---|---|---|--|--|--|---|--|-------------------------------|---|--|---|----------------------------|
| QTY | | - | | | | - | , , | 1 | - | 11 4 | | - | , | - | - | 10 |
| UNIT | | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. |
| ITEM DESCRIPTION | GEOLOGICAL STUDIES AND LABORATORY RELATED EQUIPMENT FOR OIL FIELDS PRODUCTION ENHANCEMENT CONSISTENCY OF | - DESATURATION CAPILLARY PRESSURE INSTRUMENT | BY RESTORED STATE ACOUSTIC VELOCITY DETERMINATION INSTRUMENT | GAS-OIL (KG / KO) RELATIVE PERMEABILITY | DETERMINATION INSTRUMENT CORE HOLDER FOR PERFORMING FLOW TEST AND RELATIVE PERMEABILITY DETERMINATION | (FLOODING) REFRIGERATED CENTRIFUGE (CAPILLARY PRESSURE | TEST BY CENTRIFUGE) ADVANCED STEREOSCOPY SYSTEM FOR | PHOTOGEOLOGICAL IN LEKTRETATIONS - X-RAY SPECTROSCOPY SYSTEM (XRD) | CORE-SCAN COLOUR (CORE - LOG INTEGRATION ANI | EVALUATION) VACUUM EMBEDDING MACHINE FOR PREPARATION OI | THIN SECTION GRINDING MACHINE FOR THIN LAMINATION ANI FINISHING ATTACHED TO A POLARIZED LIGHT | SCREEN - ROCK-EVAL-6 ANALYSER | POUR POINT MEASURING INSTRUMENT FOR OIL | RANGE (+38 TO BELOW – 40 ° C) AUTOMATIC SULPHUR TESTER | ORGANIC CARBON DETERMINATION INSTRUMENT | (LECO) HELIUM GAS CYLINDER |
| CODE | | | - | | | | 08-7-00-0852 | | | | | - | | | | |

SHEET NO.: 4 OF 5 ESTABLISHMENT NAME: OIL EXPLORATION COMPANY MINISTRY OF OIL

LOCATION: NORTHERN, CENTRAL, AND SOUTHERN OIL FIELDS

| COMMENT | Aboratory equipement and | spectroscopes for mineral identification and age | determination. | | | | 2 | = | = | : |
|------------------|---|--|---|--|---|---------|---|--|-----------------------------------|---------------------------------|
| OTY | | | **** | | • | | 1 | - | H | - |
| UNIT | NOS. | ******* | NOS. | SET | | | NOS. | SET | NOS. | NOS. |
| ITEM DESCRIPTION | - CARBON ISOTOPE MEASUREMENT INSTRUMENT | | - GAS CHROMATOGRAPH - MASS SPECTROSCOPE | - BIOLOGICAL MICROSCOPE ATTACHED TO A PC, WITH | DIGITAL CAMERA, SOFTWARE AND COLOUR LASER | PRINTER | - X-RAY POWDER DIFFRACTION SYSTEM (XRF) | - ENERGY DISPERSIVE MICROANALYSIS SYSTEM (EDS) | - INDUCTIVE-COUPLED PLASMA ATOMIC | SPECTROMETER - PYROLYSIS – G.C. |
| CODE | | | CONTINUATION TO: | 08-7-00-0852 | | | | | | |

LOCATION: NORTHERN, CENTRAL, AND SOUTHERN OIL FIELDS

| | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|---|--|-------|--------|---|
| COMPUTERS, EQUIPMENT F ENHANCEMEN | DRAFTING AND OFFICE RELATED FOR WORK ON OIL FIELDS PRODUCTION OT | | | Service contract for transcribing exisiting seisminc data which is rapidly deteriorating. |
| - SERVICE TAPE TRA | - SERVICE CONTRACT FOR AN INTEGRATED MAGNETIC TAPE TRANSCRIPTION AND ARCHIVING PROJECT | CONT. | 1 | |
| - INTERAC | IIVE WORKSTATIONS WITH SPARES AND ABLES | NOS. | 12 | = |
| - GEOLOGI (HERESIM | CAL AND GEOPHYSICAL SOFTWARE (, INTER WELL) | NOS. | 1 EACH | : |
| - VISION FI | LE A / E ARCHIVING SOFTWARE FOR 10 USERS | NOS. | н | * |
| SUPERMA WASHOFF | SUPERMATIC PROCESSOR FOR CONVENTIONAL AND WASHOFF PROCESSING AND PRINTING | NOS. | - | 2 |
| - PHOTOCO | PYING MACHINE A0 SIZE | NOS. | 7 | Ŧ |
| - COLOUR | COLOUR SCANNER A0 SIZE | NOS. | 7 | E |
| - COLOUR | COLOUR PLOTTER A0 SIZE | NOS. | 7 | = |
| | | T | | |

SHEET NO.: 5 OF 5 MINISTRY OF OIL

ESTABLISHMENT NAME: OIL EXPLORATION COMPANY

LOCATION: NORTHERN, CENTRAL, AND SOUTHERN OIL FIELDS

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MINISTRY OF OIL ESTABLISHMENT NAME: NORTH REFINERIES COMPANY LOCATION: BAIJI

SHEET NO.: 1 OF 6

| OTY COMMENT | Rep | COLUMN CO | 250 | 2000 | 10000 | 25 | 200 | Repeat of Phase 6 application; only | 1 contract (heat exchangers) | transported to Phase 7. | 20 | | | 1000 | 009 | 10 | 1000 | 500 | 10000 | 100 | Repeat of Phase 6 order; | 6 and now transported to | 100 Dhasa 7 | | 500 | 200 | 1000 | 200 | 10000 |
|------------------|---|--|-----|---|--|--|---|-------------------------------------|---|------------------------------------|--|------------------------------|-------------------------------|---|-----------------------------------|--|--------------------------------------|------------------------------------|--|----------------------|--|------------------------------------|-------------------|----------------------------------|--------------|------------------------------------|--|------------------------|--|
| UNIT | | | SET | | | SET | SET 2 | | | | | | | | | | | | | - | | | | | | | | | |
| S | | | | Z — | LW | - | SE | | Š | | SET | | | NOS. | SET | SET | SET | SET | MTR | N. | | | SET | SET | SET | SET | SET | SET | MTR |
| ITEM DESCRIPTION | ACTIVITY NO. (50) REPAIR AND MAINTENANCE OF BLOWN ASPHALT | BAGGING UNIT CONSISTING OF THE FOLLOWING ITEMS: | | - COLUMN IN LEKNALS - TUBES, PIPE FITTINGS | - PIPES OF DIFFERENT MATERIALS & SIZES | HEAT EXCHANGER BUNDLES & -AIR COOLER FIN FAN | - ROTATING EQUIPMENT (PUMPS, COMPRESSORS, TURBINES) WITH SPARES | ACTIVITY NO. (51) | REPAIR AND MAINTENANCE OF THREE (L.G.O) H D S UNITS | CONSISTING OF THE FOLLOWING ITEMS: | - BOILER SUPER HEATER BUNDLES & ANCILLARIES, | WITH RECOMMENDED SPARE PARTS | - SPAKE PAKIS FOR THE BOILERS | - COMPLETE KOTATING EQUIPMENT WITH SPARES | (PUMPS, COMPRESSORS, TURBINE ETC) | - COOLING TOWER PACKINGS & ANCILLARIES | - INSTRUMENTATIONS & CONTROL SYSTEMS | - ELECTRICAL EQUIPMENT WITH SPARES | - CABLES - TITER BIINDI ES & FIN. FAN ATP COOT PDS | A CHINATANIA NO CENT | DEDATE AND MAINTENANCE OF SHITEHED DECOMEDY INCH | CONSISTING OF THE FOLLOWING ITEMS: | MAINTENANCE TOOLS | - ATR CONDITION SETS WITH SPARES | - BEARINGS | - ELECTRICAL EQUIPMENT WITH SPARES | - GASKETS, VALVES, V-BELTS, BOLTS & NUTS | - Tubes, Pipe Fittings | - PIPES OF DIFFERENT MATERIALS & SIZES |
| CODE | | | | 08-7-50-1000 | | | | | | | | | 1001 11 1001 | 1001-15-/-80 | | | | | | | | | | | 08-7-52-1002 | | | | |

MINISTRY OF OIL ESTABLISHMENT NAME: NORTH REFINERIES COMPANY LOCATION: BAIJI

SHEET NO.: 2 OF 6

| COMMENT | Repeat of Phase 6 application; some Items ordered in Phase 6 and balance transported to Phase 7. | | | | | | | | - | | Equipment for boiler water | treatment | | | Raw water desalination for boiler water. | | | |
|------------------|--|--|--|--|----------------------------|--|---|---------------------------------------|--------------------------------------|--|----------------------------|--------------------------------|--------------------------------|--|---|--|---------------------------------------|---|
| QTY | | 50 | | 200 200 | 20 | 200 | • | † £ | ş un | 4 | | | 4 | | | • | n | - |
| UNIT | | SET | 192 | SET | SET | SET | i c | CET | SET | SET | | | LOT | | | | 101 | |
| ITEM DESCRIPTION | ACTIVITY NO.(53) REPAIR AND MAINTENANCE OF LUBE OIL COMPLEX | CONSISTING OF THE FOLLOWING ITEMS: - COMPLETE CHILLERS WITH RECOMMENDED SPARES | - ROTARY EQUIPMENT (PUMP, COMPRESSORS AND TURBINES) WITH RECOMMENDED SPARE PARTS | - INSTRUMENTATIONS: - FIELD INSTRUMENTS | - CONTROL ROOM INSTRUMENTS | - PROCESS CONTROL COMPUTER & MUNITURS - ANALYTICAL INSTRUMENTS | -ELECTRICAL EQUIPMENT WITH RECOMMENDED SPARES | - COOLING TOWER PACKING & ANCILLARIES | - TUBE BUNDLES & FIN-FAN AIR COOLERS | - COLUMNS & INTERNALS - HEATERS & ANCILLARIES | | REPAIR AND MAINTENANCE OF FOUR | FOLLOWING ITEMS (PUMPS, PIPES, | INSTRUMENTATION, VALVES, BLOWERS, INTERNALS VESCETS ANALYTERS MOTORS. DISSOLVING | ACTIVITY NO. (55) NEW DEVENSE OCHOCIS PROJECT CONSISTS OF 3 LINES | INCLUDING THE FOLLOWING ITEMS (PUMPS, FILTERS, | TANKS , BLOWERS, CHLORINATING SYSTEMS | EQUIPMENT, LABORATORY DEVICES, PIPES, VALVES, |
| CODE | | | | 1 | 08-7-53-1003 | | | | | | | | 08-7-54-1004 | | | | 08-7-55-1005 | |

SHEET NO.: 3 OF 6

ESTABLISHMENT NAME: NORTH REFINERIES COMPANY LOCATION: BAIJI

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|----------------|--|--|---|--|
| 08-7-56-1006 | ACTIVITY NO.(56) INSTALL FLUIDIZED CATALYTIC CRACKING "FCC" UNIT WITH THE OTHER REQUIRED DOWN STREAM UNITS CONSISTING OF THE FOLLOWING ITEMS (HEAT EXCHANGER, AIR COOLERS, RISER, REGENERATERS, INSTRUMENTS, COLUMNS, ELECTRICAL EQUIPMENT ROTATING EQUIPMENT, WELDING EQUIPMENT AND TOOLS, WELDING RODS, PIPES, FITTINGS) | LOT | 9 | Equipment for new project to improve gasoline output by 30,000 bpd. Not all items required are contained in this application under Phase 7 |
| 08-7-57-1007 | ACTIVITY NO. (57) REPAIR AND MAINTENANCE OF KIRKUK REFINERY WASTE WATER UNIT REVAMP: PUMPS WITH RECOMMENDED SPARE PARTS OIL SKIMMERS & DAF UNIT PIPES OF DIFFERENT SIZES & TYPES PIPE FITTINGS TANKS WITH DIFFERENT SIZES AND ACCESSORIES INSTRUMENTATION CONTROL SYSTEMS ELECTRICAL EQUIPMENT WITH RECOMMENDED SPARE PARTS TESTING & MEASURING EQUIPMENT AND DEVICES | NOS. NOS. MTR. NOS. SET SET | 40 3 10000 2000 6 30 20 | Small treatment units (20,000 bpd) for water treatment apparatus to reduce contamination of waster water outflow to surrounding countryside. |
| 08-7-00-1008 | ENVIRONMENTAL POLLUTION MEASURING EQUIPMENT | SET | 100 | Water and air pollution measurement equipment |
| . 08-7-00-1009 | FIRE FIGHTING SYSTEMS, SAFETY EQUIPMENT WITH RECOMMENDED SPARES | SET | 100 | General fire fighting equipment (CO2/foam) |
| 08-7-00-1010 | COMPLETE ROTATING EQUIPMENT WITH RECOMMENDED SPARES - COMPLETE PUMPS - COMPLETE TURBINES WITH RECOMMENDED SPARES - COMPLETE GEAR BOXES, FANS - COMPLETE COMPRESSORS | SET SET SET SET | 100 70 50 30 | Complete rotating machinery replacements for Beiji refinery. |

ESTABLISHMENT NAME: NORTH REFINERIES COMPANY LOCATION: BAIJI

SHEET NO.: 40F 6

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|------|-------|-----------------------------------|
| | COMPLETE MECHANICAL EQUIPMENT WITH | | | General equipment and |
| | | | 6 | spares for refillery repair |
| | HEAT EXCHANGER BUNDLES & AIR COOLER FIN FAN | SET | 001 | and returbishment. |
| | BUNDLES | | • | |
| | - BOILER COMPLETE WITH ACCESSORIES | SET | | |
| | - SUPER HEATERS FOR BOILERS | SET | 10 | |
| | CHILLERS & EXCHANGERS | SET | 100 | : : : : : : : : : : : : : : : : : |
| | | SET | 100 | |
| | BLOWERS & SUIT BLOWERS | SET | 100 | |
| 08-7-00-1011 | - AIR CONDITIONING EOUIPMENT | SET | 100 | |
| | L VESSELS, COLUMNS, DRUMS AND FLARE TIP VESSELS | SET | 200 | |
| | - TANKS WITH DIFFERENT SIZES | SET | 20 | |
| | - COOLING TOWER PACKINGS | SET | 100 | |
| | - MAINTENANCE TOOLS | SET | 200 | |
| | PIPES | MTR. | 10000 | |
| | FITTINGS | SET | 2000 | |
| | - VALVES, STRAINERS, WITH DIFFERENT SIZES&TYPES | NOS. | 2000 | |
| | - GASKETS | SET | 1000 | |
| | INSTRUMENTATIONS AND CONTROL SYSTEMS WITH | | | Replacement |
| | RECOMMENDED SPARES: | | | instrumentation and |
| | U.P.S SYSTEMS | SET | 200 | equipment for control of |
| | FIELD INSTRUMENTS | SET | 2000 | refinery operations. |
| | ANALYZERS | NOS, | 20 | |
| | - CONTROL ROOM INSTRUMENTS | SET | 200 | |
| 08-7-00-1012 | EXCHANGE & INTERCOM SYSTEMS | SET | 20 | |
| | EXTENSION CABLES FOR T.C & SIGNAL CABLES | MTR. | 20000 | |
| | - PLC SYSTEMS | SET | 100 | |
| | - MAINTENANCE TOOLS | SET | 100 | |
| | - PROCESS CONTROL COMPUTERS & MONITORS | SET | 100 | |
| | - ANALYTICAL INSTRUMENTS | NOS. | 20 | |

MINISTRY OF OIL ESTABLISHMENT NAME: NORTH REFINERIES COMPANY

SHEET NO.: 5 OF 6

LOCATION: BAIJI

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|------|-------|----------------------------|
| | ELECTRICAL EQUIPMENT WITH RECOMMENDED SPARES: | | | Electrical equipment for |
| | - MOTORS WITH RECOMMENDED SPARES | SET | 100 | maintenance, plus |
| | - TRANSFORMERS | SET | 100 | compressors. |
| | - SUBSTATIONS | SET | 20 | • |
| | - GENERATORS(TURBOGAS AND DIESEL) | SET | 100 | |
| 08-7-00-1013 | - LIGHTING & LIGHTING FIXTURES | SET | 200 | |
| CTOT OF 1 OF | - FIELD & CONTROL EQUIPMENT | SET | 1000 | |
| | - CABLES | MTR. | 10000 | |
| | - MAINTENANCE TOOLS | SET | 100 | |
| | - BEARINGS | SET | 250 | |
| | - COMPRESSORS FOR REFRIGERATORS | SET | 200 | |
| | - SPARE PARTS FOR ELECTRICAL EQUIPMENT | SET | 2000 | |
| | - TESTING EQUIPMENT | SET | 100 | |
| | - MACHINES FOR MANUFACTURING BOTTLES ,CANS | SET | 50 | Machinery to manufacture |
| 08-7-00-1014 | AND BARRELS WITH RECOMMENDED SPARE PARTS | | | plastic bottles and cans. |
| LTOT 00 / 00 | - SPARE PARTS FOR THE EXISTING MANUFACTURING | NOS. | 8000 | and steel barrels, for |
| | MACHINES FOR BOTTLES, CANS AND BARRELS | | | refinery usage. |
| | MEASURING & TESTING DEVICES, MATERIALS WITH | | | Laboratory equipment and |
| | RECOMMENDED SPARES: | | | consumables for internal |
| 08.7.001015 | - LABORATORY EQUIPMENT AND ANALYZERS | SET | 200 | quality control procedures |
| CTOTOO | - GLASSWARE & APPARATUS | SET | 100 | in refinery. |
| | - CHEMICAL REAGENTS FOR INTERNAL QUALITY | KG. | 200 | |
| | CONTROL PURPOSES | LIT. | 200 | |

ESTABLISHMENT NAME: NORTH REFINERIES COMPANY LOCATION: BAIJI MINISTRY OF OIL

SHEET NO.: 6 OF 6

| COMMENT | , R | | Additives for gasoline, lube oil and | | | | | Equipment and spares for general | transportation, internally and | externally, refinery being 4 * 3 | | = | : | 2 | ξ. | | 2 | : | | = | = | : | * | : | * |
|------------------|-----------|--------------|--------------------------------------|-----------------------------|-----------------------------------|------------------------------------|--|--|--------------------------------|----------------------------------|----------------------------|----------|-------------|---------------|-----------|--------------|--------------|-------------|--------------------------|---------------------------------|--------------------------------|----------------------------|----------|-------------|-----|
| OTV | 1000 | 100 | 1 | 150 | 200 | 400 | 100 | | | | 100 | 3 | 4 | 4 | 9 | ဗ | 2 | 1 | 4 | 40 | 20 | 20 | - | - | • |
| TINII | NOT | NOT | | TON | TON | TON | TON | | | | SET | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | SON |
| TTEM DESCRIPTION | | CAIALYSIS | CHEMICALS ADDITIVES: | - TETRA ETHYL LEAD (T.E.L.) | - ADDITIVES FOR MOTOR ENGINE OILS | - ADDITIVES FOR DIESEL ENGINE OILS | - ADDITIVES FOR VISCOSITY INDEX IMPROVER | TRANSPORTATION AND SERVICES EQUIPMENT WITH | RECOMMENDED SPARES: | | ATB COMPRESSORS WITH SPARE | - CRANES | - FORKLIFTS | - DUMP TRUCKS | - LORRIES | - AMBULANCES | - SHOVELS | - BULDOZERS | - TRUCKS (VARIOUS TYPES) | - MINI BUSES & BUSES (45 SEATS) | - CREW PICK - UPS DOUBLE CABIN | - LANDCRUISER OR EQUIPMENT | - GRADER | - EXCAVATOR | |
| CONE | 3700 E 66 | 08-7-00-1016 | | | 08-7-00-1017 | | | | | | | | | | | | 08-7-00-1018 | | | | | | | | • |

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SHEET NO.: 1 OF 6

MINISTRY OF OIL
ESTABLISHMENT NAME: MIDLAND REFINERIES
LOCATION: DAURA REFINERY

| ITEM DESCRIPTION UNIT QTY |
|---|
| EQUIPMENT WITH RECOMMENDED SPARE |
| |
| COMPLETE DRIVEN BY MOTORS, STEAM |
| OR DIESEL ENGINES. |
| PRESSORS WITH MOTORS OR STEAM |
| |
| FANS WITH MOTORS, GEARBOXES. |
| SPARE PARTS FOR EXISTING ROTATING EQUIPMENT |
| PRESSORS, DIESEL ENGINES, GEAR BOX |
| NES INCLUDING STEAM TURBINE FOR (K. |
| |

MINISTRY OF OIL ESTABLISHMENT NAME: MIDLAND REFINERIES LOCATION: DAURA REFINERY

SHEET NO.: 2 OF 6

| COMMENT | Equipment for cleaning heat exchangers | | Equipment and spares for maintenance | Steel plate for repairing 25 damaged storage tansk. | Specialized fittings for chilling and | Effluent piping - corrosion | resistant | Moulds for pipes. | Bottling plant consumables. | Ropes for rigging | Gaskets for heat exchangers | Heat exchanger equipment | Anodes for cathodic protection | | Welding electrodes | Specialized hoses for process units | Mixers for tank circulation | |
|------------------|--|---|---|---|---------------------------------------|--|-------------------|---|---|---|-----------------------------|---|---|---|----------------------|---|--|--|
| QTY | | 7 | 2000 | 1800 | 2000 | 10000 2000 | | 00009 | 2000 | 12000 | 250 | 15 | 3000 | | 40 | 20000 | 10 | |
| UNIT | | SET | NOS. | SHEETS | MTR. | NOS. MTR. | | MTR. | NOS. | MTR. | SET | NOS. | NOS. | _ | TON | MTR. | SET | |
| ITEM DESCRIPTION | MECHANICAL EQUIPMENT WITH RECOMMENDED SPARE PARTS: | HIGH PRESSURE WATER BLASTING MACHINES, ELECTRICAL AND DIESEL DRIVEN WITH CLEANING ACCESSORIES | GENERAL MAINTENANCE TOOLS AND DEVICES ELECT. & MECH. COMPLETE TOOL BOXES, AND SPECIAL TOOLS | - CARBON STEEL PLATES FOR STORAGE TANKS REPAIR | LOW CARBON PIPES | - FITTINGS, CHECK VALVES AND STEAM TRAPS - CARBON STEEL PIPES PROTECTED INTERNALLY | AGAINST CORROSION | - INSULATION MATERIALS FOR PIPES AND CIPPLICATIONS OF AND CORES | - SPARE PARTS FOR PLASTIC BOTTLES MANUFACTURING | PLANT - HOISTING ROPES FOR RIGGING ACTIVITIES | - HEAT EXCHANGERS GASKETS | - TUBE BUNDLES, STRAIGHT OR U-TUBE COMPLETE | WITH BAFFLE PLATES AND TUBE SHEETS - MAGNISIUM ANODES FOR INTERNAL CATHODIC | PROTECTION FROM CORROSION FOR COOLERS PARTS(WATER SIDE) | - WELDING ELECTRODES | HIGH PRESSURE REINFORCED RUBBER HOSES TO BE | USED IN PROCESS UNITS - MIXERS FOR CRUDE TANKS, PRODUCTS TANKS | COMPLETE WITH MOTORS AND RECOMMENDED SPARE PARTS |
| CODE | | | | | | 08_7_00_1052 | 1001-00-7-00 | | | | | | | - | | | | |

MINISTRY OF OIL
ESTABLISHMENT NAME: MIDLAND REFINERIES
LOCATION: DAURA REFINERY

SHEET NO.: 3 OF 6

| COMMENT | Routine maintenance and operations | | | Cranes for internal use. | Tanker for acid transportation. | Vehicles for internal use. | Machinery for localized | יי | Safety equipment | Trailers for chemical comsumables | 101210000000000000000000000000000000000 | Descaling equipment | ŧ | Operational requirement |
|------------------|--|--------------------------------------|--|--|---|----------------------------|-------------------------|-------------|--|--------------------------------------|---|---------------------------------|---|----------------------------|
| QTY | | — | 7 | 9 | - | ĸ | 2 | - | 7 | 7 | 7 | 7 | 7 | 7 |
| UNIT | | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. |
| ITEM DESCRIPTION | TRANSPORTATION AND SERVICES EQUIPMENT WITH RECOMMENDED SPARES: | - DESLUDGING TANKER WITH ACCESSORIES | - DRUM SQUEEZERS ADAPTABLE AS FORKLIFT (2.5-3) | 10N, AND (5) TON CAPACITY WITH ACCESSORIES HYDRAULIC CRANES (2.5,30,50 TONS) CAPACITY. | - SULPHURIC ACID TANKER (10000 LITRES) CAPACITY | - MINI BUSES | - WINCH TRUCKS | - BULLDOZER | - AMBULANCES COMPLETE WITH LIFE SAVING EOUPMENT, ACCESSORIES | FLAT BED TRAILERS (40 TONS) CAPACITY | LOW LOADERS(30 TONS) CAPACITY | - AIR COMPRESSORS DIESEL DRIVEN | WET SAND BLASTING MACHINE COMPLETE WITH | HYDRAULIC BUNDLE EXTRACTOR |
| CODE | | | | | | 08-7-00-1053 | | | | | | | | |

MINISTRY OF OIL ESTABLISHMENT NAME: MIDLAND REFINERIES

SHEET NO.: 4 OF 6

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| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|--------------|--|
| | INSTRUMENTATION WITH RECOMMENDED SPARE PARTS: - CONTROL, VALVES, COMPLETE, SOLENOID, VALVES | NOS. | 24000 | Instrumentation for operational control in refinery |
| | PRESSURE GAUGES , THERMOMETERS , PRESSURE TRANSMITTERS THERMOCOLIPLE CALIBRATORS WITH | | | |
| 08-7-00-1054 | ACCESSORIES, TEMPERATURE INDICATOR DESKS, | | | |
| | SMITTERS, FITTINGS, | | | |
| | METERS WITH SPARE | | | |
| | THERMOWELLS WITH SPARES, INDICATOR | | | |
| | CONTROLLERS, LEVEL SWITCHES, ALARM SYSTEMS | | | |
| | - PLASTIC AND COPPER TUBES | MTR. | 10000 | Small diameter tubing for |
| | - AUTOMATIC LEVEL GAUGING SYSTEM FOR (65) TANKS | LOT | — | instrumentation. A.I.G for tank level control systems |
| 08-7-00-1055 | SPARE PARTS FOR INSTRUMENTS, AND CONTROL ROOMS, WITH SPARES FOR POSITIVE DISPLACEMENT METERS | NOS. | 2000 | Parts for PD and control system |
| | COMPLETE AUTOMATIC CONTROL SYSTEM FOR BOILERS | | | Control system for automatic |
| 08-7-00-1056 | NO. (9,10) COMPLETE WITH CONTROLLERS. | LOT | yes i | boiler operation |
| | TRANSMITTERS, INDICATORS. | | | |
| | ELECTRICAL EQUIPMENT WITH RECOMMENDED SPARE | | | Electrical control systems |
| | PARTS: | 3 | , | |
| | VOI TACE FACH WITH SET OF BEADINGS | NOS. | 700 | |
| 08.7.00.1057 | L TINIVIERRITETARIE POWER SUPPLIES, BATTERY | SET | 20 | t |
| (COT-00-1-00 | | | | |
| | - ELECTRICAL POWER CABLES LOW VOLTAGE AND | MTR. | 75000 | = |
| | MEDIUM VOLTAGE CITEAM TRIDBINE EL ECTDICAL CENEDATOD COMPLETE | CET | - | Steam generator with accessories |
| | CAPACITY (AMW) WITH ACCRECIONS | 100 | • | |
| | SPARE PARTS FOR EXISTING ELECTRICAL EQUIPMENT | NOS. | 2000 | Electrical spare parts |

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MINISTRY OF OIL

SHEET NO.: 5 OF 6

ESTABLISHMENT NAME: MIDLAND REFINERIES LOCATION: DAURA REFINERY

| ITEM DESCRIPTION | | UNIT | QTY | COMMENT |
|---|----------|------|----------|--|
| HYPOCHLORITE GENERATOR WITH RECOMMENDED SPARE PARTS | DED | SET | 250 | Equipment for sodium hypochlorite manufacture |
| EQUIPMENT FOR EDR - IONICS UNIT: | | | | Further equipment for effluent |
| FILTINATION STOLETY | | LOT | - | that approved in Phases 4 and 5. |
| - AUTOMATIC CONTROL SYSTEM | | LOT | - | • |
| YADIOTIC SPANE PARES | | NOS. | 100 | |
| - VAIGOUS STAKE TAKIS - PLASTIC PIPES | | NOS. | 1000 | |
| | | MTR. | 2000 | |
| SAFETY, FIRE FIGHTING SYSTEMS & EQUIPMENT: | | | | Fire fighting equipment and |
| - FIRE PROTECTION SYSTEMS FOR FLOATING ROOF | 00F | SET | ო | consumables. |
| TANKS WITH ACCESSORIES AND SPARE PARTS | | | | |
| - FIRE EXTINGUISHERS WITH IMPORTANT SPARE PARTS AND PILLAR HYDRANTS | E PARTS | NOS. | 009 | : |
| - FIXED CARBON DIOXIDE(CO2) SYSTEM | M FOR | LOT | - | = |
| ELECTRICAL SUBSTATION FIRE PROTECTION | | | | |
| - SPARE PARTS FOR FIRE FIGHTING TRUCKS | - | NOS. | 2000 | 2 |
| - VARIOUS TYPES OF FOAM | | LIT | 20000 | |
| ACTIVITY NO. (58): | | | | Unit to improve quality of |
| ERZATION UNIT AND | HYDROGEN | LOT | 7 | gasoline production |
| PRODUCTION UNIT | | | | |

MINISTRY OF OIL ESTABLISHMENT NAME: MIDLAND REFINERIES

SHEET NO.: 6 OF 6

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| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|-------|----------|----------------------------------|
| | | , and | ć | Additives for refined products |
| 08-7-00-1062 | - ADDITIVES FOR GASOLINE ENGINE OILS | TON | 300 | |
| | - ADDITIVES FOR VISCOSITY INDEX IMPROVERS | TON | 200 | |
| | - TETRA ETHYL LEAD (TEL) | TON | 100 | |
| 08-7-00-1063 | TESTING AND ENVIRONMENTAL PROTECTION EQUIPMENT WITH RECOMMENDED SPARES | SET | 2000 | Environmental testing equipment |
| | EQUIPMENT AND MATERIALS FOR MAINTENANCE AND | | | Equipment for repair and |
| | REPAIR OF TRANSFORMERS & MOTORS, CONSISTING OF: | NOT | 200 | HIMINGERANCE OF CHANSION LINESS. |
| | - GRAIN ORIENTED SILICON STEEL | | 200 | |
| | - COPPER WIRES | TON | 150 | = |
| | - OFF - LOAD TAP CHANGERS | NOS. | 09 | 2 |
| | ON - LOAD TAP CHANGERS | NOS. | 20 | = |
| 08-7-00-1064 | - TRANSFORMERS HV & LV BUSHINGS | NOS. | 240 | = |
| | - PROTECTION DEVICES FOR TRANSFORMERS | NOS. | 260 | = |
| | - COLD ROLLED CARBON STEEL | TON | 150 | |
| | - HOT ROLLED CARBON STEEL | TON | 100 | |
| | - INSULATING MATERIAL | TON | 200 | = |
| | - PURCH WOOD BLOCK | SQ.M. | 10 | |
| | - SILICA GEL | KG | 100 | |
| | - TRANSFORMER ACTIVE PARTS | NOS. | 30 | |
| | - FLEXIBLE WIRES | MTR. | 1000 | = |
| | - CONNECTION TERMINALS AND ACC. | NOS. | 1000 | |
| | - INSULATION MATERIALS FOR MV ELECTRICAL MOTOR | TON | 50 | |
| | KEPAIR, CLASS F. | į | ; | |
| | - SPARE PARTS FOR EXISTING MACHINES | TON | 10 20 | |
| | T | | | |

MINISTRY OF OIL ESTABLISHMENT NAME: SOUTH REFINERIES COMPANY

SHEET NO: 1 OF 2

LOCATION: BASRAH

| CODE | · ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|--------------|-------|--|
| 08-7-00-1100 | COMPLETE ROTATING EQUIPMENT (PUMPS, COMPRESSORS, TURBINES, GEAR BOXES, FANS, AND OTHER MISC. ITEMS) WITH RECOMMENDED SPARE PARTS | SET | 50 | Equipment and spares for general maintenance and repairs. |
| 08-7-00-1101 | SPARE PARTS FOR ROTATING EQUIPMENT | NOS. | 2000 | 2 |
| 08-7-00-1102 | COMPLETE FILTERS FOR LUBE OIL PLANT WITH ACCESSORIES AND RECOMMENDED SPARE PARTS | SET | ĸ | 2 |
| 08-7-59-1103 | NO. (59) NCE & REPAIR OF THE DEWAXING GOF THE FOLLOWING ITEMS: NTS, PIPES, ELECTRICALS, | LOT | 1 | Equipment and spares necessary for the repair to the lube oil dewaxing unit. |
| | COMPRESSORS, AND OTHER MISC. ITEMS) WITH SPARE PARTS | | | |
| | MECHANICAL EQUIPMENT WITH RECOMMENDED SPARE PARTS: | | | Equipment and spares for general maintenance and |
| | - PIPES OF DIFFERENT SIZES - HITTINGS | MTR. | 60000 | repairs. |
| 08-7-00-1104 | HEAT EXCHANGER TUBES HEAT EXCHANGED BINNIN ES | MTR. | 80000 | r |
| | - WELDING ELECTRODES | TON | 22 | = |
| | - TOOLS | NOS. | 200 | |
| | - VARIOUS WORK SHOP MACHINES | SET | 300 | Drilling and lathe mills etc. |
| 08-7-00-1105 | - ELECTRICAL EQUIPMENT (MCC,MOTORS, STARTERS, GENERATORS) WITH RECOMMENDED SPARE PARTS | SET | 200 | General electrical spare |
| | - CABLES | MTR. | 20000 | = |
| | INSTRUMENTATION EQUIPMENT WITH RECOMMENDED SPARE DARTS. | | | ATG control system for |
| 08-7-00-1106 | - COMPLETE INSTRUMENTS FOR REPAIR THE CONTROL COCTEM AND TANK CALICING CYCHEMIC | LOT | 7 | Stol age talles. |
| | - SPARE PARTS FOR INSTRUMENTS - CABLES | NOS. MTR. | 10000 | 2 |
| 08-7-00-1107 | SAFETY EQUIPMENT AND PERSONAL SAFETY ACCESSORIES WITH SPARES | NOS. | 10000 | Safety equipment for refinery workers. |

ESTABLISHMENT NAME: SOUTH REFINERIES COMPANY LOCATION: BASRAH MINISTRY OF OIL

SHEET NO.: 2 OF 2

| COMMENT | . Maintenance equipment | Safety equipment | Equipment for crude desalters | Equipment and spares for | water supply, sewage, safety | and environmental | requirements. | = | £ | £ | : | | ± | : | 5 · | | Equipment and spares for | water treatment | | Additives for product | quality enhancement | | | |
|------------------|--|---|---|--|--|-------------------|-----------------------------|---------------------------|-------------------------|----------------------------|---------------|------------------|-------------|----------|------------|-------------|--|-----------------|-------------|-----------------------|--------------------------|-----------------------------------|------------------------------------|------------------------------------|
| QTY | 300 | 200 | 2 | | | | 20 | 7 | 7 | 7 | - | 1 | œ | 7 | 7 | 7 | | 800 | 200 | | 150 | 200 | 400 | 100 |
| UNIT | NOS. | SET | SET | | | | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | NOS. | | SET | SET | | TON | TON | TON | TON |
| ITEM DESCRIPTION | INSPECTION TOOLS, WITH RECOMMENDED SPARE PARTS | TESTING AND ENVIRONMENTAL PROTECTION EQUIPMENT WITH RECOMMENDED SPARE PARTS | CRUDE OIL DESALTERS & ACCESSORIES WITH RECOMMENDED SPARES | TRANSPORTATION AND SERVICES EQUIPMENT WITH | DIFFERENT KINDS, & CAPACITIES WITH RECOMMENDED | SPARE PARTS: | L VEHICLES (BUSES, PICKUPS) | - TANKERS FOR WASTE WATER | - RUBBER COATED TANKERS | TANKERS FOR DRINKING WATER | SEWAGE TRUCKS | - GARBAGE TRUCKS | - FORKLIFTS | SQUEZERS | CRANES | - AMBULANCE | MEMBRANES & SPARE PARTS FOR THE R.O. UNITS | MEMBRANES | SPARE PARTS | CHEMICALS & ADDITIVES | - TETRA ETHYL LEAD (TEL) | - ADDITIVES FOR MOTOR ENGINE OILS | - ADDITIVES FOR DIESEL ENGINE OILS | L ADDITIVES FOR VISCOSITY IMPROVER |
| CODE | 08-7-00-1108 | 08-7-00-1109 | 08-7-00-1110 | | | | | | | 08-7-00-1111 | | | | | | | | 08-7-00-1112 | | | | 08-7-00-1113 | | |

MINISTRY OF OIL ESTABLISHMENT NAME: NORTH GAS COMPANY LOCATION: KIRKUK

SHEET NO.: 1 OF 2

| CODE | ITEM DESCRIPTION | TINII | OTV | COMMENT |
|--------------|---|-------|-------|--|
| | TRANSPORTATION AND SERVICES EQUIPMENT WITH | | | Transportation requirements, for |
| | RECOMMENDED SPARE PARTS: | | | staff. |
| • () | - BUSES AND MINI BUSES | NOS. | 30 | • |
| 08-7-00-1150 | - LIFTING, HANDLING, EARTH MOVING EQUIPMENT | NOS. | 15 | Cranes, fork lifts and earth moving |
| | TYRES | SON | 2000 | equipment Transportation equipment and |
| | - BATTERIES. | | 200 | spares. |
| | CONSUMABLE CHEMICALS USED FOR THE OPERATION OF | | | Consumable items for refinery operations |
| | - DI ETHANOL AMINE | TON | 1000 | |
| | - MOLECULAR SIEVE FOR DRIERS. | TON | 400 | |
| | - METHANOL. | TON | 100 | |
| 08.7-00-1151 | - ANTIFOAM | TON | 10 | • |
| 1011-00-1-00 | - RESINS (FOR WATER DEMI UNIT). | CU.M. | 100 | |
| | - ACTIVATED CARBON FOR Hg REMOVAL. | TON | 20 | |
| | - CHEMICALS FOR COOLING TOWER & ROHER WATER | NO L | 2 F | |
| | TREATMENT UNITS | 5 | 3 | |
| | - FIRE EXTINGUISHING FOAM | LIT. | 30000 | |
| 08-7-00-1152 | TESTING & MEASURING APPARATUS WITH SPARE PARTS | NOS. | 150 | Environmental control apparatus |
| 08-7-00-1153 | INSPECTION EQUIPMENT WITH RECOMMENDED SPARE PARTS | NOS. | . 100 | NDT (plate thickness, hardness) equipment |
| | ELECTRICAL EQUIPMENT WITH RECOMMENDED SPARE PARTS: | | | Electrical equipment and generators to ensure UPS. |
| 08-7-00-1154 | - ELECTRICAL EQUIPMENT (MOTORS, UPC, MCC, STARTERS, TRANSFORMERS, LIGHTING FIXTURES | NOS. | 3000 | |
| | ETC) - ELECTRICITY GENERATORS CAPACITY (1-4) MVA | NOS. | 4 | £ |
| 08-7-00-1155 | GAS MEASURING & CONTROL INSTRUMENTS WITH RECOMMENDED SPARE PARTS | NOS. | 5000 | Control and gas measurement instrumentation. |
| 08-7-00-1156 | 二日 | LOT | 2 | Equipment for pre-treatment of boiler water. |
| 00 7 00 1157 | ROTATING EQUIPMENT WITH RECOMMENDED SPARE | SET. | 400 | General equipment and spares. |
| /CTT_00_/_00 | SPARES FOR ROTATING EQUIPMENT | NOS. | 10000 | |
| | | | | |

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MINISTRY OF OIL ESTABLISHMENT NAME: NORTH GAS COMPANY LOCATION: KIRKUK

SHEET NO.: 2 OF 2

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|-------------|-----------------|---|
| | MECHANICAL EQUIPMENT WITH RECOMMENDED SPARE PARTS: - TOOLS & EQUIPMENT FOR MAINTENANCE OF HEAT EXCHANGERS, BOILERS, FURNACES, & ROTATING | SET | 2000 | Equipment and spares to carry out general maintenance and increase plant efficiency |
| 00 7 00 7 00 | EQUIP. - MAINTENANCE SERVICES CONTRACTS FOR MAIN STEAM TURBINES, GAS COMPRESSORS, COOLING | LOT | 20 | = : |
| QCTT-00-/-Q0 | TOWER& SULPHUR SLATING MACHINES ETC,WITH REQUIRED SPARE PARTS | | | • |
| | - PIPES - TUBES | MTR NOS. | 60000 150000 | = |
| | - FITTINGS FOR HEAT EXCHANGERS, FURNACES, & ROHERS | NOS. | 15000 | |
| | RAW & SEMI FINISHED MATERIALS | NOS. | 2000 | Steel and teflon bars. |
| 08-7-00-1159 | SAFETY EQUIPMENT AND MATERIALS (GOGGLES,SAFETY BELTS,ANTI HAZARDEOUS SUITS, TOXIC GAS MEASURING INSTRUMENTSETC) | NOS. | 5000 | Safety equipment |
| 08-7-00-1160 | TELEPHONE EXCHANGES & INTERNAL CALLING SYSTEMS WITH RECOMMENDED SPARE PARTS. | SET | 100 | Internal PA system and telephone system |

ESTABLISHMENT NAME: SOUTH GAS COMPANY LOCATION: BASRAH MINISTRY OF OIL

SHEET NO.: 1 OF 3

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|--------------|---------------|--|
| 00 7 60 1200 | ACTIVITY NO. (60) MATERIALS REQUIRED FOR THE REPAIR AND MAINTENANCE OF KHOR – ZUBAIR NGL & LPG PLANTS, TO PROVIDE LPG FOR THE INHABITANTES IN THE SOUTH | | | |
| | REGION OF IRAQ. CONSISTING OF THE FOLLOWING ITEMS (ROTATING EQUIPMENT, FILTERS, FANS, BURNERS, FLARES, CABLES, PIPES, VALVES, FITTINGS, BEARINGS, INSTRUMENTS, EXPL. LIGHTING, ELECTRICALS, METERING SYSTEM & GENERATORS) WITH SPARES AND SERVICES. | LOT | 7 | reduce flaring of gas from N & S Rumailah fields. |
| | ACTIVITY NO. (61) MATERIALS REQUIRED FOR THE REPAIR AND | | | Equipment and spares to repair N Rumailah sour gas |
| 08-7-61-1201 | MAINTENANCE OF NORTH – RUMAILA SOUR GASES TREATMENT UNIT & NGL PLANT. CONSISTING OF THE FOLLOWING ITEMS (ROTATING EOUPMENT, FILTERS) I | LOT | 7 | treatment plant. |
| | FANS, HEAT EXCHANGERS, BURNERS, FLARES, CABLES, PIPES, VALVES, FITTINGS, BEARINGS, INSTRUMENTS, EXPL. | | | |
| | LIGHTING, ELECTRICALS, METERING SYSTEM). WITH SPARES & SERVICES. | | | |
| | MECHANICAL EQUIPMENT: | | | General mechanical spare |
| 08-7-00-1202 | - BOLIS, NUIS, - WELDING RODS, | NOS. | 5000 10 | parts and equipment |
| | - HOSES | MTR. | 10000 | |
| | - PIPES WITH VARIOUS SIZES - FITTINGS | MTR. NOS. | 40000 2000 | = |
| 08-7-00-1203 | EQUIPMENT AND SPARES REQUIRED FOR THE VARIOUS MAINTENANCE WORK SHOPS | NOS. | 10000 | Work shop equipment. |

MINISTRY OF OIL

SHEET NO.: 2 OF 3

ESTABLISHMENT NAME: SOUTH GAS COMPANY LOCATION: BASRAH

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|-------------|-------------|--|
| | SAFETY, FIRE FIGHTING SYSTEM & EQUIPMENT: - PERSONAL'S SAFETY ACCESSORIES & TOOLS | SET | 4000 | Gas masks for personnel safety |
| | - SAFETY & INSPECTION TEST EQUIPMENT WITH SPARES | NOS. | 2000 | Fire fighting equipment and |
| 08-7-00-1204 | FIRE ALARM SYSTEMS WITH RECOMMENDED SPARES | SET | S | ŧ |
| | FIRE FIGHTING VEHICLES WITH SPARES | NOS. | 4 | ŧ |
| | - SPARES FOR FIRE FIGHTING VEHICLES - CHEMICALS FOR FIRE FIGHTING | NOS. LTR | 3000 | : |
| | TRANSPORTATION AND SERVICES EQUIPMENT WITH | | | Transportation and |
| | RECOMMENDED SPARES: | | | safety requirements, |
| | - AMBULANCE CARS | NOS. | 4 | mechanical equipment. |
| | - BUSES 16 - 40 PASSENGERS, LANDCRUISERS | NOS. | 99 | = |
| | - CRANES | NOS. | 7 | * |
| | - WINCH TRUCK | NOS. | | = |
| 08-7-00-1205 | - CLEANING VEHICLE | NOS. | - | = |
| | - TANKER | NOS. | 1 | = |
| | - SHOVEL | NOS. | - | = |
| | FORKLIFTS & SQUEZERS AND SIDE BOOM CAPACITY | NOS. | 9 | = |
| | 10,5,3,2 TONS WITH RECOMMENDED SPARES LORRIES WITH LIFTING EQUIPMENT | NOS. | 7 | = |
| | - TRACTORS WITH SEMI TRAILERS | NOS. | 7 | E |
| 08-7-00-1206 | NITROGEN PLANT COMPLETE WITH SPARES | LOT | 1 | Nitrogen for purging and inerting tanks. |
| 08-7-00-1207 | WATER TREATMENT PLANT (R.O) COMPLETE | LOT | 1 | Waste water treatment plant |
| 08-7-00-1208 | TESTING AND MEASURING EQUIPMENT, ACCESSORIES, REAGENTS WITH RECOMMENDED SPARES AND SERVICES | LOT | 1 | Safety and environmental control |

SHEET NO.: 3 OF 3

MINISTRY OF OIL ESTABLISHMENT NAME: SOUTH GAS COMPANY LOCATION: BASRAH

| CODE | ITEM DESCRIPTION | UNIT QTY | QTY | COMMENT |
|--------------|--|----------------------|---------------------|--|
| 08-7-00-1209 | TELEPHONE EXCHANGES WITH ACCESSORIES AND SPARES | SET | 2 | Equipment for internal control of gas plant operations |
| 08-7-62-1210 | ACTIVITY NO.(62): MATERIALS REQUIRED FOR THE REPAIR AND MAINTENANCE OF KHOUR - ZUBAIR GAS STORAGE & COOLING PLANT AND TERMINAL FACILITIES CONSISTING OF THE FOLLOWING ITEMS (ROTATING EQUIPMENT, FILTERS, FANS, CABLES, VALVES, BEARINGS, INSTRUMENTS SHEETS, TOOLS, DRUMS, PIPES, FITTINGS. | LOT | 2 | Parts and equipment to repair this terminal to allow gas to be pumped to the North, and to store gas when demand is low. |
| 08-7-00-1211 | LPG. PUMPING STATION (MATERIALS & INSTALLATION) IN KHOUR - ZUBAIR STORAGE & COOLING PLANT | LOT | 1 | Reverse pumping unit for above |
| 08-7-00-1212 | DEHYDRATION UNIT, GAS FILTERING SYSTEM WITH RECOMMENDED SPARES | · LOT | 1 | Gas treatment plant |
| 08-7-00-1213 | CONSUMABLE CHEMICALS USED FOR THE OPERATION OF THE PLANT. | TON CU.M. LIT. | 2000 100 1000 | Molecular steves, anti-foaming agents, activated carbon for plant operation. |

SHEET NO.: 1 OF 7 MINISTRY OF OIL
ESTABLISHMENT NAME: GAS FILLING COMPANY
LOCATION: FILLING PLANTS ALL OVER THE COUNTRY

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| | | | | E 2 |
| | | | | <u>.</u> L |
| 08-7-00-1250 L | LPG CYLINDERS | NOS. | 200000 | Replacement of old, |
| | LPG CYLINDER VALVES & THEIR SPARE PARTS | | | |
| | IPPER PARTS OF VALVES | NOS. | 400000 | Spare Parts for |
| 08-7-00-1251 | TOOLS & SPARE PARTS FOR VALVES REPAIR. | | 300000 | cylinders. |
| | PARE PARTS FOR LPG FILLING HEAD | NOS. | 15000 | |
| 2 | MISCELLANEOUS TOOLS, MACHINES & EQUIPMENT | | | |
| 13.4 | FOR REPAIR OF LPG CYLINDERS | | | |
| | MISCELLANEOUS TOOLS | NOS. & | 40000 | Tools and |
| 7 00 1 00 | | MTR. | 2000 | equipment for |
| 7571-00-7-20 | MACHINES | NOS. | 20 | cylinder repair. |
| | EQUIPMENT | NOS. | 80 | |
| S | SPARE PARTS FOR LPG CYLINDER KUT | _ | | |
| 2 | MANUFACTURING PLANT | | | |
| -9_ | SPARE PARTS FOR DIES & PRESSES | NOS. & | 2000 | Spare Parts for |
| | | MTR. & | 200 | bottling |
| | | KG. & | 200 | machinery. |
| 08-7-00-1253 | | SET | 70 | |
| | SPARE PARTS FOR SIX – SPINDLE MACHINES | NOS. | 15000 | |
| | SPARE PARTS FOR PRESSURE TESTING CAROUSEL | NOS. | 1000 | |
| _1 | SPARE PARTS FOR OXYGEN PLANT | NOS. | 1000 | |
| | CO, PRODUCTION UNIT & SPARE PARTS | NOS. & | 1000 | Carbon dioxide |
| 08-7-00-1234 | | SET | 100 | production set |

MINISTRY OF OIL ESTABLISHMENT NAME: GAS FILLING COMPANY

LOCATION: FILLING PLANTS ALL OVER THE COUNTRY

SHEET NO.: 2 OF 7

| CODE | ITEM DESCRIPTION | UNIT | QTY (| QTY COMMENT |
|--------------|---|--------|-------|--------------------|
| | FIRE, SAFETY & INSPECTION EQUIPMENT | | | |
| | - FIRE TRUCKS | NOS. | 3 | Repair and |
| | FIRE FIGHTING & SAFETY EQUIPMENT | NOS. & | 3750 | maintemance of |
| 08-7-00-1255 | | KG. & | 2000 | filling plants all |
| | | PAIRS | 2000 | countrywide |
| | - INSPECTION EQUIPMENT | NOS. | 10 | |
| 08-7-00-1256 | UNIT FOR AROMATICS REMOVAL FROM HEXANE WITH SPARE PARTS | NOS. | | : |
| | CHEMICALS | | | - |
| | - ODORANT FOR LPG (THIOPHENE) | TON | 20 | = |
| 08-7-00-1257 | - FOR INDUSTRIAL WATER TREATMENT | TON | 08 | |
| | - MOLECULAR SIEVE FOR SWEATING BUTANE | KG. | 200 | |
| 08-7-00-1258 | LABORATORY APPARATUS | NOS. | 53 | 2 |
| | PLATES & ACCESSORIES FOR LPG VESSELS | | | Ε |
| | - PLATES FOR 3000 M' SPHERICAL TANKS | TON | 1000 | ** |
| 08-7-00-1259 | - SPARE PARTS FOR LPG TRAILERS 20 TONS CAPACITY | NOS. | 950 | |
| | | | | |

ESTABLISHMENT NAME: GAS FILLING COMPANY LOCATION: FILLING PLANTS ALL OVER THE COUNTRY

SHEET NO.: 3 OF 7

| TRANSPORTATION VEHICLES & HEAVY DUTY EQUIPMENT - SEMI-TRAILER FOR OIL PRODUCTS TRANSPORTATION WITH SPARES - CARGO TRUCK 15 TON WITH SPARES - CARGO TRUCK 15 TON WITH SPARES - FLAT-BED SEMI TRAILER 20 TON WITH SPARES - PICK-UP DOUBLE CAB 4X2 WITH SPARES - LOW LOADER 35 TON WITH SPARES - LOW LOADER 35 TON WITH SPARES - LORRY WITH SIDE CRANE CAP. 10 TON WITH SPARES - SKY LIFT TRUCK (10-12)M LIFT WITH SPARES - SKY LIFT TRUCK (10-12)M LIFT WITH SPARES - WINCH TRUCK WITH SPARES - VEHICLE FOR PASSENGER TRANSPORTATION (12-44) WITH SPARES - WATER TRUCK (8000 - 13000) M³ WITH SPARES - FORK LIFT 5 TON WITH SPARES | | NOS. NOS. NOS. NOS. | 6 110 pl 2 2 2 2 2 1 | Transportation equipment for LPG plants; replacemennt and repair. |
|--|---|------------------------------|--|---|
| | | NOS. NOS. NOS. NOS. | | Transportation equipment for LPG lants; replacemennt and repair. |
| | | MOS. NOS. NOS. NOS. NOS. | | Transportation equipment for LPG lants; replacemennt and repair. |
| | ARES | NOS. NOS. NOS. | 10 pl 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | equipment to L. C. |
| | ARES | NOS. NOS. NOS. | 12 2 2 2 1 1 1 2 2 2 2 1 1 1 1 1 1 1 1 | repair. |
| | ARES | NOS. NOS. NOS. | 2 2 2 1 1 2 2 | |
| | | NOS. | 50 | |
| | | NOS. | 122 | |
| | | NOS. | 7 - | |
| | | NOS. | _ | |
| | - | • | | |
| | | | | |
| | | NOS. | | |
| | | NOS. | _ | |
| VEHICLE FOR PASSENGER TRANS (12–44) WITH SPARES WATER TRUCK (8000 – 13000) M³ W FORK LIFT 5 TON WITH SPARES | PARES | NOS. | - | |
| (12–44) WITH SPARES WATER TRUCK (8000–13000) M ³ W FORK LIFT 5 TON WITH SPARES | u | NOS. 2 | 25 | |
| - WATER TRUCK (8000 – 13000) M ³ W FORK LIFT 5 TON WITH SPARES | S | | | |
| FORK LIFT 5 TON WITH SPARES | - 13000) M ³ WITH SPARES | NOS. | د | |
| | | NOS. | 10 | 2 |
| - BATTERIES OF DIFFERENT SIZES | | | 400 | - |
| - TYRES OF DIFFERENT SIZES | | NOS. 8 | 800 | - |
| SPARE PARTS FOR TRUCK CR. | K CRANE, CARGO TRUCK, | NOS. 200 | 200000 | - |
| TRAILER, PICK-UPS, LOW LOAD | FRAILER, PICK-UPS, LOW LOADER, LAND CRUISER, | | | |
| CRANE, LIFT, SHOVEL, PASSENG | CRANE, LIFT, SHOVEL, PASSENGER VEHICLES, TRUCKS | | | |
| AND FORK LIFT | | | - | |

SHEET NO.: 4 OF 7 MINISTRY OF OIL
ESTABLISHMENT NAME: GAS FILLING COMPANY
LOCATION: FILLING PLANTS ALL OVER THE COUNTRY

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|--------|--------|---------------------|
| | ELECTRICAL EQUIPMENT & SPARE PARTS FOR LPG FILLING PLANTS | | | - |
| | - ELECTRIC CABLES | MTR. | 100000 | Electrical spares |
| | - SPARE PARTS AND REHABILITATION FOR | TON | 1500 | and cables for Gas |
| | TRANSFORMERS & CABLES | | | Filling Plants |
| | LIGHTING AND ACCESSORIES & SPARE PARTS | NOS. | 20000 |) |
| | - HIGH TENSION EQUIPMENT FOR LPG FILLING | SET | 20 | |
| | PLANTS | | | |
| | - SPARE PARTS FOR HIGH TENSION EQUIPMENT | NOS. & | 300 | |
| | | SET | 20 | |
| 1361 00 2 00 | - ELECTRIC COMPONENT AND ACCESSORIES AND | NOS. & | 100000 | |
| 1071-00-/-00 | TOOLS | SET | 2000 | |
| | - ELECTRIC CONTROL EQUIPMENT AND SPARE | NOS. | 30000 | |
| P4 | PARTS | | | |
| | - ELECTRIC MOTORS AND SPARE PARTS | NOS. | 100 | |
| | - DIESEL GENERATORS WITH SPARE PARTS | NOS. & | 30 | |
| | | SET | 8 | |
| | - SPARE PARTS FOR DIESEL GENERATORS | NOS. | 2000 | |
| | - ELECTRIC TESTING EQUIPMENT AND ACCESSORIES | NOS. | 300 | |
| | - TELEPHONE SETS AND SPARE PARTS | NOS. | 3000 | |
| | SPARE PARTS FOR LPG FILLING PLANTS | | | |
| | - SPARE PARTS FOR LPG FILLING PLANTS | NOS. & | 7500 | Chain conveyors for |
| 6261 00 1 00 | | SET & | œ | Gas Filling Plants |
| 7071-00-/-00 | | MTR. | 1500 |) |
| * | - FILLING STATION WITH SPARE PARTS | NOS. | 4 | ٠ |

MINISTRY OF OIL ESTABLISHMENT NAME: GAS FILLING COMPANY

LOCATION: FILLING PLANTS ALL OVER THE COUNTRY

SHEET NO: 5 OF 7

| CODE. | ITEM DESCRIPTION | UNIT | QTY | UNIT QTY COMMENT |
|--------------|--|------|--------|---|
| | INSTRUMENTS, METERS AND SPARES | | | |
| | - SPARE PARTS FOR LEVEL GAUGE FOR LOW | NOS. | 100 | Instrumentation spares |
| | PRESSURE TANKS | | | for LPG plants |
| | - SPARE PARTS FOR FILLING LINE FOR GAS | NOS. | 300 | |
| | LIGHTER | NOS. | 300 | |
| | - SPARE PARTS FOR CONTROL VALVE AND | | | |
| | TRANSMITTER | NOS. | 100 | *************************************** |
| | - COMPLETE COMPUTER SYSTEM FOR PANEL OF | | | |
| | CONTROLLER OF HEXANE UNIT WITH SPARES | NOS. | 200 | |
| | - SPARE PARTS FOR SLAM SHUT-OFF VALVE & | | | |
| 08-7-00-1263 | AXIAL FLOW VALVE | NOS. | 170 | |
| | - SPARE PARTS FOR REGULATOR | NOS. | 40 | |
| | - PROCESSOR, PLAIN PAPER COPIER, PRIPORT | | | |
| | COPIER, MONEY COUNTER & CALCULATOR | NOS. | 1500 | |
| | - SPARE PARTS FOR PREVIOUS ITEM | NOS. | 200000 | |
| | - VARIOUS FITTINGS | NOS. | ო | |
| | - FLOW METER SYSTEM | NOS. | 20 | *************************************** |
| | - SPARE PARTS FOR PREVIOUS ITEM | NOS. | 09 | |
| | - GAS DETECTORS | NOS. | 20 | |
| | - SPARE PARTS FOR PREVIOUS ITEM | | | |

MINISTRY OF OIL ESTABLISHMENT NAME: GAS FILLING COMPANY.

LOCATION: FILLING PLANTS ALL OVER THE COUNTRY

SHEET NO.: 6 OF 7

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|------------|-----------------------|-------------------|
| | ROTATING MACHINERY FOR LPG PLANTS & SPARE PARTS | | | |
| | - SPARE PARTS FOR LPG & HEXANE PUMPS | NOS. & | 2000 | Mechanical |
| | | SET | 200 | rotating |
| • | - SPARE PARTS FOR NAPHTHA & PENTANE PUMP | NOS. & | 2000 | equipment and |
| | | SET | 400 | spares for repair |
| | - BEARING FOR MOTOR & PUMP | NOS. | 8000 | and maintenance |
| | - MECHANICAL SEALS & THEIR COMPONENTS | NOS. | 2000 | |
| | - SPARE PARTS FOR BOILER BLOWER FAN | NOS. & | 3000 | |
| | | SET | 2000 | |
| | - AIR COMPRESSORS | NOS. | 20 | |
| | - SPARE PARTS FOR AIR COMPRESSORS | NOS. & SET | NOS. & SET 15000&3000 | |
| | - BOILER FEED WATER PUMP AND SUBMERSIBLE | NOS. | 15 | |
| | PUMPS | | | |
| | - SPARE PARTS FOR BOILER PUMPS | NOS. & SET | 1000 & 200 | |
| | - VERTICAL SEWAGE WATER PUMP & SPARE PARTS | NOS. | ∞ | |
| 1367.00.1364 | - SPARE PARTS FOR VERTICAL PUMPS | NOS. & SET | 300 & 200 | |
| +07T-00-1-00 | - SPARE PARTS FOR COOLING TOWER PUMP FOR | NOS. & | 1000 | |
| | HEXANE UNIT | SET | 200 | • |
| | - GAS COMPRESSOR CORKEN | NOS. | 20 | |
| | - SPARE PARTS FOR CORKEN COMPRESSORS | NOS. & SET | 6000&2000 | |
| | - SPARE PARTS FOR GAS COMPRESSOR SABRO FOR | NOS. & | 4000 | |
| | LOADING & UNLOADING LPG TRUCK | SET & | 2000 | |
| | | LIT. | 10000 | |
| | - FIRE FIGHTING PUMPS | NOS. | 30 | |
| | - SPARE PARTS FOR FIRE FIGHTING PUMPS | NOS. &SET | 1000 & 50 | |
| | - SPARE PARTS FOR WATER CHILLER COOLER | NOS. & | 7000 | |
| | | SET | 2000 | |
| | - WATER PUMPS | NOS. | 20 | |
| | - SPARE PARTS FOR WATER PUMPS | NOS. &SET | 2000&1000 | - |
| | - HYDRAULIC PUMPS | NOS. | 20 | |
| | - SPARE PARTS FOR HYDRAULIC PUMPS | NOS. &SET | 2000&1000 | |

MINISTRY OF OIL

SHEET NO.: 7 OF 7 ESTABLISHMENT NAME: GAS FILLING COMPANY
LOCATION: FILLING PLANTS ALL OVER THE COUNTRY

| CODE | ITEM DESCRIPTION | TINU | OTY | UNIT OTY COMMENT |
|--------------|---|--------|-------|----------------------|
| | PIPES, FITTINGS AND VALVES | | | |
| | - BALL, GATE, GLOBE VALVES WITH SPARE PARTS | NOS. & | 1000 | Mechanical & |
| • | | SET | 200 | rotating equipment |
| | - CARBON STEEL PIPES | MTR. | 15000 | for repairs amd |
| 08-7-00-1265 | - HYDRAULIC SAFETY VALVES, EXCESS FLOW | NOS. & | 3000 | maintenance |
| | VALVES, F-VALVE WITH SPARE PARTS | SET | 200 | |
| | PIPE FITTINGS, STUD BOLTS, NUTS, GASKETS | NOS. & | 22000 | |
| | | SET | 15 | |
| 7761 00 2 00 | TOOLS FOR HEAT EXCHANGER & BOILERS WITH SPARE | NOS. | 20 | = |
| 0071-00-/-00 | PARTS | | | |

MINISTRY OF OIL ESTABLISHMENT Name: Oil Pipelines Company LOCATION: OIL DEPOTS / PUMPING STATIONS / PIPELINES NETWORK

SHEET NO.: 1 OF 14

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT | |
|--------------|---|-------|--------|---|--------------|
| | COMPLETE ASSEMBLY FLOW METER WITH FLOW COMPUTER TO CALCULATE QUANTITIES OF DRY GAS FOR DIFFERENT LOCATIONS COMPLETE WITH SPARE PARTS AND: | NOS. | 100 | Metering and flow control equipment for whole pipeline network, especially to power stations. | |
| 08-7-00-1300 | OW TRANSMITTER, PRESSURE TRANEMPERATURE TRANSMITTER, | NOS. | 1000 | Ε | |
| | COMMUNICATOR, CONTROL COMPUTER, PRINTER, FITTINGS, GLANDS, JUNCTION BOXES - CONTROL CABLES FOR ABOVE MENTIONED ITEM | KM. | 10 | Ε | |
| 08-7-00-1301 | PRE-COATED LINE PIPES OF DIFFERENT SIZES AND SCHEDULES | KM. | 120 | Replacement gas piping. | 1 |
| 08-7-00-1302 | HEAT SHRINKABLE SLEEVES OF DIFFERENT SIZES | NOS. | 4500 | = | |
| 08-7-00-1303 | POLYETHYLENE TAPE | SQ.M. | 100000 | | 1 |
| 08-7-00-1304 | PRIMER | LIT. | 4000 | = | , |
| 08-7-00-1305 | PNEUMATIC STOPPERS OF DIFFERENT SIZES | NOS. | 100 | 1 | |
| 08-7-00-1306 | POSITIVE DISPLACEMENT (PD) METER, DIFFERENT SIZES, TO MEASURE QUANTITIES OF LIGHT OIL PRODUCTS | NOS. | 50 | Meters for truck loadings | 1 |
| 08-7-00-1307 | LOADING ARMS, COMPLETE | NOS. | 25 | 1 | |
| 08-7-00-1308 | SPARE PARTS FOR A/M EQUIPMENT | NOS. | 400 | 11 | 1 |
| 08-7-00-1309 | SPARE PARTS FOR EXISTING LOADING ARMS | NOS. | 10000 | | |
| 08-7-00-1310 | 33 KV SWITCH GEAR FOR NASSIRIYA PUMPING STATION | SET | 1 | Pumping system switch gear | |
| 08-7-00-1311 | 3.3 KV SWITCH GEAR FOR PUMPING STATIONS | SET | 1 | Switch gear for depots | |
| 08-7-00-1312 | VALVES AND FITTINGS DIFFERENT SIZES AND CLASSES | NOS. | 006 | - | |
| 08-7-00-1313 | WELDING ELECTRODES OF DIFFERENT TYPES AND SIZES | TON | 50 | Equipment for depots | |

LOCATION: OIL DEPOTS / PUMPING STATIONS / PIPELINES ESTABLISHMENT NAME: OIL PIPELINES COMPANY MINISTRY OF OIL

SHEET NO.: 2 OF 14

NETWORK

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|------|-------|--|
| 08-7-00-1314 | ELECTRICAL COUNTER (ACC LOAD DUAL) FOR LOADING ARMS IN DEPOTS, COMPLETE WITH ACCESSORIES, TICKET PRINTER, TRANSMITTER, TEMPERATURE CORRECTOR, ACCESSORIES FOR CHANGE SET STOP | NOS. | 1000 | Equipment for internal measurement systems |
| 08-7-00-1315 | INSTRUMENT SPARE PARTS FOR EXISTING LOADING ARMS IN DEPOTS IN DIFFERENT LOCATIONS INCLUDING SOLENOID, DIAPHRAGM, O-RING, BEARINGS | NOS. | 4000 | Electrical spares for loading systems. |
| 08-7-00-1316 | DIGITAL INDICATOR DIFFERENT TYPES (FLOW RATE, TEMPERATURE, PRESSURE, DENSITY) | NOS. | 100 | = |
| 08-7-00-1317 | COUNTER, ALARM INDICATOR DIFFERENT SIZES AND TYPES FOR CONTROL PANELS IN PUMPING STATIONS | NOS. | 30 | = |
| 08-7-00-1318 | SELECTOR SWITCHES DIFFERENT TYPES FOR PUMPING STATIONS | NOS. | 300 | = |
| 08-7-00-1319 | LAMPS, DIFFERENT TYPES (SIZE, VOLTAGE, WATTAGE, CURRENT) FOR CONTROL PANELS IN DIFFERENT PUMPING STATIONS | NOS. | 20000 | LED's and lamps for signalling and control systems |
| 08-7-00-1320 | ACCESSORIES FOR CENTRAL AIR-CONDITIONING EQUIPMENT INCLUDING (COMPRESSORS, CONDENSERS, DIFFERENT TYPES OF MAGNETIC SWITCHES, TIMERS, TRANSFORMERS, CONDENSER COILS, EVAPORATOR COILS) | NOS. | 2000 | Control room environmental control |
| 08-7-00-1321 | PUMPS, ELECTRICAL AND DIESEL DRIVEN, DIFFERENT SIZES (10-100) KW USED FOR LOADING AND UNLOADING IN DEPOTS | NOS. | 30 | Pumps for loading depots. |

MINISTRY OF OIL FSTARI ISHMENT NAME: OIL PIPELINES CON

SHEET NO.: 3 OF 14

ESTABLISHMENT NAME: OIL PIPELINES COMPANY LOCATION: OIL DEPOTS / PUMPING STATIONS / PIPELINES NETWORK

| QTY | Pumping station for Mosul, North area, to deliver products to power station at Mosul City. | Generating sets for all sites. | Electrical spare parts for Beiji Refinery operatyions. | | 4000 Spares and equipment for product pumping stations |
|------------------|---|--|--|--|--|
| UNIT | LOT | SET | NOS. | | NOS. |
| ITEM DESCRIPTION | PUMPING STATION FOR OIL PRODUCTS COMPRISING THE FOLLOWING: MAIN PUMPS, 700 M³/HOUR EACH OF 500 M HEAD BOOSTER PUMPS, 700 M³/HOUR EACH OF 60 M HEAD STATION PIPING, VALVES, FITTINGS AND ACCESSORIES MEASURING AND CONTROL EQUIPMENT REMOTE CONTROL PANEL POWER AND CONTROL CABLES METERING AND GAUGING PROTECTION SYSTEM, COMPLETE (TEMPERATURE, VIBRATION, PRESSURE ETC.) WITH ALL REQUIRED ACCESSORIES TO COMPLETE THE ABOVE SYSTEM INCLUDING SPARE PARTS | DIESEL GENERATING SETS 3×400 V, 50 HZ, P.F. = 0.8 AT 1500 RPM, 750 KVA | SPARE PARTS FOR ELECTRICAL TRANSFORMERS, CIRCUIT-BREAKERS AND MOTORS AT BALJI AND OTHER PUMPING STATIONS | CONTRACTOR DIVISION TO DESCRIPTION OF THE PROPERTY OF THE PROP | STATIONS, DIFFERENT SIZES |
| CODE | 08-7-00-1322 | 08-7-00-1323 | 08-7-00-1324 | | 08-7-00-1325 |

SHEET NO.: 4 OF 14

ESTABLISHMENT NAME: OIL PIPELINES COMPANY LOCATION: OIL DEPOTS / PUMPING STATIONS / PIPELINES NETWORK

| | | | | | | | | . T.T. | | | | | | | |
|------------------|---|---|--|--|--|---|---|--|--|--|--|--|---|--|--|
| COMMENT | Safety equipment | Safety equipment | Safety consumables | Portable fire fighting equipment | 2 | : | = | : | Fire fighting pumops | Re-application from Phase 6 | Vehicle tyres | Vehicle batteries | Pipe repair equipment | Parts for LPG distribution system | Site work and maintenance |
| QTY | 200 | 9 | 20000 | | ო | - | - | - | 1000 | 2 | 1000 | 009 | 1000 | 2000 | 5 |
| UNIT | NOS. | NOS. | LIT. | | NOS. | NOS. | NOS. | NOS. | NOS. | SET | PAIR | NOS. | MTR. | NOS. | NOS. |
| ITEM DESCRIPTION | EXPLOSION PROOF STARTER AND PUSH BUTTONS, DIFFERENT SIZES | FIRE FIGHTING VEHICLES FOR OIL INDUSTRIES COMPLETE WITH ALL RECOMMENDED SPECILAIZED EQUIPMENT AND SPARE PARTS | FOAM FLUOROPROTIEN, LOW EXPANSION IN STANDARD 25-200 LITERS DRUM | FIRE FIGHTING SERVICE PUMPS, SKID MOUNTED FOR OIL INDUSTRIES COMPLETE WITH SPARE PARTS AND ASPORT OWS. | 300 M ³ HOUR × 12 BARS, DIESEL DRIVEN | - 150 M ² /HOUR × 12 BARS, DIESEL DRIVEN | - 300 M ³ /HOUR × 12 BARS, ELECTRICAL DRIVEN | - 85 M ³ /HOUR × 10 BARS, ELECTRICAL DRIVEN | SPARE PARTS FOR EXISTING FIRE FIGHTING PUMPS, DIESEL ENGINE DRIVEN | TRANSFORMER OIL DRIER, FLOW RATE: 4000 LITERS/HOUR | TIRES OF DIFFERENT SIZES FOR DIFFERENT TYPES OF VEHICLES | LEAD ACID BATTERIES, DRY TYPE, 12 V, DIFFERENT SIZES | HALF SOLES OF DIFFERENT SIZES FOR REPAIRING CORRODED PIPE | SPARE PARTS FOR MICRO FILTERS INSTALLED IN LPG PUMPING STATIONS (FILTER ELEMENT, GASKET) | LORRY WITH SIDE CRANE OF DIFFERENT SIZES |
| CODE | 08-7-00-1327 | 08-7-00-1328 | 08-7-00-1329 | | | 08-7-00-1330 | | | 08-7-00-1331 | 08-7-00-1332 | 08-7-00-1333 | 08-7-00-1334 | 08-7-00-1335 | 08-7-00-1336 | 08-7-00-1337 |

MINISTRY OF OIL ESTABLISHMENT NAME: OIL PIPELINES COMPANY

LOCATION: OIL DEPOTS / PUMPING STATIONS / PIPELINES NETWORK

SHEET NO.: 5 OF 14

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|-----|---|
| 08-7-00-1338 | PASSENGER BUS 10-21 SEATER FOR OIL INDUSTRIAL LOCATIONS, COMPLETE WITH RECOMMENDED SPARE PARTS | NOS. | 5 | Transport for operators |
| 08-7-00-1339 | DOUBLE-CAB (PICK-UP) VEHICLES TO BE USED TO CARRY MATERIALS AND MAINTENANCE TEAM TO OIL DEPOTS AND PUMPING STATIONS AS WELL AS PIPELINES NETWORK, COMPLETE WITH RECOMMEND SPARE PARTS | NOS. | 25 | |
| | EARTH MOVING EQUIPMENT:- | | | Pipe repair and maintenance |
| 08-7-00-1340 | - SHOVELS OF DIFFERENT SIZES | NOS. | 7 | 2 |
| 08-7-00-1341 | MOBILE CRANE 30-50 TON CAP. WITH SPARE PARTS | NOS. | 2 2 | = = |
| 08-7-00-1342 | 3-5 TON FORK LIFT WITH SPARE PARTS | NOS. | 2 | 1.0 |
| 08-7-00-1343 | 2TON BARREL SQUEEZER WITH SPARE PARTS | NOS. | 2 | Transportation equipment |
| 08-7-00-1344 | REHABILITATION OF OBSOLETE TELECOMMUNICATION AND TELEPHONE EQUIPMENT TO SECURE LINK WITH DEPOTS AND PUMPING STATIONS TO ENSURE SAFE OPERATION OF PUMPING OF OIL PRODUCTS TO DIFFERENT LOCATIONS COMPRISING TELEPHONE AND WIRELESS EQUIPMENT COMPLETE WITH NECESSARY ACCESSORIES AND SPARE PARTS TO OPERATE THE SYSTEM. | SET | 10 | To repair and maintain exisiting telecomm equipment |

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SHEET NO.: 6 OF 14 ESTABLISHMENT NAME: OIL PIPELINES COMPANY LOCATION: OIL DEPOTS / PUMPING STATIONS / PIPELINES MINISTRY OF OIL

NETWORK

| COMMENT | Workshop equipment for maintenance and repair | = | | = | = | = | • | = | * | = | £ | = | : | - | = |
|------------------|--|--------------------------------------|---|----------------------------------|-------------------------------------|--|--------------|---|-----------------------|--------------------------|--|---|--|--|---|
| QTY | | 7 | က | က | က | က | | | ĸ | က | ဗ | က | w | ю | S. |
| UNIT | | NOS. | NOS. | NOS. | PAIR | NOS. | | NOS. | NOS. | NOS. | NOS. | NOS. | SET | NOS. | NOS. |
| ITEM DESCRIPTION | HYDRAULIC AND MANUAL MAINTENANCE EQUIPMENT COMPRISING THE FOLLOWING: | HYDRAULIC GEARING EXTRACTOR, 30 TONS | - HYDRAULIC CROSS-BEARING PULLER, 20 TONS | - HYDRAULIC GRIP PULLER, 20 TONS | - ADJUSTABLE ARMATURE STAND, 5 TONS | BALL BEARING HEATER SUITABLE FOR BEARINGS UP | SINGLE PHASE | HYDRAULIC PRESS, FRAME CAPACITY 30 TONS | - MANUAL CABLE CUTTER | - HYDRAULIC CABLE CUTTER | - ELECTROMECHANICAL CABLE CUTTER, SUPPLY: 220V | - 50 HZ, SINGLE PHASE - AUTOMATIC HYDRAULIC CRIMPING TOOL FOR N | SOLDERLESS TERMINALS - MANUAL CHAIN BLOCK, COMPLETE WITH STAND 5, 10 | AND 15 TONS - BALL BEARING TESTER TO MONITOR THE OPERATING | CONDITIONS OF BEARINGS - MANUAL CRIMPING TOOL |
| CODE | | | | • | | 08-7-00-1345 | | | | | | | | | |

LOCATION: OIL DEPOTS / PUMPING STATIONS / PIPELINES MINISTRY OF OIL ESTABLISHMENT NAME: OIL PIPELINES COMPANY NETWORK

SHEET NO.: 7 OF 14

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|------|-------|---|
| | MECHANICAL TOOLS AND EQUIPMENT INCLUDING TH FOLLOWING:- | | | Workshop equipment for repair and maintenance |
| | - HAND OPERATED HYDROSTATIC TEST PUMPS | NOS. | 9 | = |
| | - MANUAL PIPE CUTTERS | NOS. | 9 | * |
| 08-7-00-1346 | - EXTRA WHEEL CUTTERS FOR ABOVE ITEM | NOS. | 1200 | = |
| | - ELECTRIC RIGHT ANGLE GRINDERS | NOS. | 150 | = |
| | - GRINDER DISCS FOR ABOVE ITEM | NOS. | 3000 | = |
| | - WHEEL STEEL BRUSHES | NOS. | 200 | \$ |
| | - LEATHER WELDING GLOVES | PAIR | 150 | = |
| | - WELDING HELMETS | NOS. | 100 | E |
| 08-7-00-1347 | POWER CABLE LUGS AND CONNECTORS | NOS. | 30000 | Electrical spares |
| 08-7-00-1348 | HYDRAULIC WRENCH | NOS. | 9 | Mechanical equipment |
| | SOCKETS FOR THE ABOVE ITEM, DIFFERENT SIZES | NOS. | 100 | = |
| 08-7-00-1349 | <u>S</u> | NOS. | 15000 | Spares for existing product pumps |
| 08-7-00-1350 | NON-SPARKING HANDY TOOLS USED FOR THE MAINTENANCE OF LPG AND DRY GAS PIPELINE EQUIPMENT | NOS. | 4000 | LPG tools |
| 08-7-00-1351 | WIRE ROPE, SIZE 6×60, OF LENGTH 1000 METERS USED ON TRAIN RAIL LOADING | PCS | 4 | For movement of trains in LPG area (no sparks!!!) |
| 08-7-00-1352 | ACTUATOR, DIFFERENT TYPES, FITTED ON DIFFERENT VALVE SIZES FOR DRY GAS PIPELINES | NOS. | 25 | Gas pipeline repairs |
| 08-7-00-1353 | STOPPLE PLUGGING MACHINE FOR REPLACEMENT OF DEFECTED SECTION OF LPG LINE 14 INCHES PIPELINE COMPRISING: SANDWICH VALVES, FITTINGS, NECESSARY ACCESSORIES, BOLTS, NUTS FOR ABOVE OPERATION | LOT | . 2 | Repairs to LPG lines |

ESTABLISHMENT NAME: OIL PIPELINES COMPANY

SHEET NO.: 8 OF 14

LOCATION: OIL DEPOTS / PUMPING STATIONS / PIPELINES NETWORK

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|------|-----|---|
| | REHABILITATION OF 24 INCHES DIAMETER, 135KM. LONG NORTH RUMAILA-NASSIRIYA DRY GAS PIPELINE & THE 10 INCH DIA. 161KM. SHUABA-NASSIRIA PRODUCTS PIPE LINE REHABILITATION INCLUDES THE FOLLOWING ITEMS: | | | Repair and maintenace to dry gas and product lines, now working atb reduced pressure. |
| 08-7-00-1354 | FOLLOWED BY RUNNING PIGS WITH GAUGING PLATES - MEASURING AND RECORDING THE INTERNAL GEOMETRY OF THE PIPELINE USING CALIPER PIGS - INTERNAL INSPECTION OF THE LINE USING INTELLIGENT | LOT | - | # # # # # # # # # # # # # # # # # # # |
| | DEFECTS SUPPLYING ALL TOOLS, PIGS, PIG TRACKING EQUIPMENT AND PRESSURE MONITORING EQUIPMENT REQUIRED FOR FULFILLMENT OF THE ABOVE | | | £ |
| | MENTIONED OPERATIONS - SUBMITTING A FINAL REPORT DETAILING RESULTS OF THE INSPECTION SURVEY AND SHOWING REMEDIAL MEASURES AND MAINTENANCE WORK REQUIRED FOR THE REHABILITATION OF THE ABOVE MENTIONED PIPELINE INCLUDING MATERIALS REQUIRED | | | 5 |
| 08-7-00-1355 | PIG RECEIVING TRAP, 24 INCHES, ANSI 600, SKID MOUNTED PIG RECEIVING TRAP, SUITABLE TO RECEIVE CURRENTLY AVAILABLE INTELLIGENT PIG, TO BE INSTALLED ON THE 24 INCHES DRY GAS NORTH RUMAILA-NASSIRIYA LINE COMPLETE WITH SERVICE VALVES, PIG SIGNAL, PRESSURE INDICATOR, CONNECTING PIPING TO MAIN LINE, BY-PASS LINE AND VENT LINE. | LOT | - | Purchase of pig trap. |

MINISTRY OF OIL ESTABLISHMENT NAME: OIL PIPELINES COMPANY

SHEET NO.: 9 OF 14

LOCATION: OIL DEPOTS / PUMPING STATIONS / PIPELINES NETWORK

| ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|---|------|------------------|---|
| LINE FIFE, CARBON STEEL, 8 INCHES, 15 KILOMETERS TOTAL LENGTH, COMPLETE WITH THE FOLLOWING: | | | Line pipe for electrical bower station at Beiii |
| - HEATING SYSTEM, INSULATION AND OVERALL METAL SHEATHS | LOT | , , , | |
| - CATHODIC PROTECTION EQUIPMENT | | | = |
| - ACCESSORIES INCLUDING VALVES, FLANGES, TEES, | | | = |
| ELBOWS, REDUCERS, CAPS, GASKETS, STUD BOLTS, | | | |
| NUTS, WELDING ELECTRODES ETC. | | | |
| LINE PIPE, CARBON STEEL, 16 INCHES, 70 KILOMETERS, | | | Line pipe for power station |
| FACTORY COATED WITH EXTRUDED POLYETHYLENE PLUS | | | at Yousifiva, currently |
| HEAT SHRINKABLE SLEEVES FOR GIRTH WELDS | | , | using crude as supply, thus |
| COMPLETE WITH ALL ACCESSORIES INCLUDING FITTINGS, | TOT | - | Switching to products. |
| VALVES, WELDING ELECTRODES, CATHODIC PROTECTION | | | |
| SYSTEM | • | | |

MINISTRY OF OIL ESTABLISHMENT NAME: OIL PIPELINES COMPANY

SHEET NO.: 10 OF 14

LOCATION: OIL DEPOTS / PUMPING STATIONS / PIPELINES NETWORK

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|----------------|--|------|-----|---|
| | REHABILITATION OF EXISTING GAS COMPRESSOR | | | Repair to Gas |
| | STATION IN NORTH RUMAILA. REHABILITATION | | | Compressor Station at N |
| | INCLUDING SUPPLYING, ERECTION AND COMMISSIONING | | | Rumailan |
| | OF THE FOLLOWING MISSING EQUIPMENT: | | | |
| 1 | - AIR COMPRESSORS, 2 NOS. | • | | |
| · | - CONTROL AND TELECOMMUNICATION SYSTEMS | | | = |
| . 00 7 00 1250 | - LOADING PROGRAMS FOR CONTROL SYSTEMS FOR | LOT | - | # |
| 0001-00-/-00 | OPERATING AND CONTROLLING A/M SYSTEM ON LINE PRINTERS | | | = |
| | OPERATING MANUALS WITH SPECIAL TOOLS | • | | ± |
| | OF THE A/M EQUIPMENT SPARE PARTS FOR A/M EQUIPMENT | | | = |
| | LPG PIPELINE, CARBON STEEL, 10 INCHES, 180 KILOMETERS LENGTH, FACTORY COATED WITH EXTRUDED POLYETHYLENE, COMPLETE WITH THE | | | LPG pipeline from Beiji to Mosul for domestic gas delivery. |
| | FOLLOWING: - LAUNCHING AND RECEIVING TRAP STATIONS | | | Ε |
| | - REDUCTION PRESSURE STATION | | | ** |
| | - FILTERS, MICROFILTERS, FLOW METERS | | | = |
| 08-7-00-1359 | LINE BREAK VALVES, 10 INCHES, BALL AND CHECK | LOT | - | = |
| | - CONTROL AND TELECOMMUNICATION SYSTEM | | | = |
| • | - CATHODIC PROTECTION SYSTEM | | | = |
| | - ELECTRICAL MATERIALS COMPRISING OF CABLES, | | | = |
| | LIGHTING FITTINGS, WELDING ELECTRODES, ETC. | | | = |
| | VALVES, CHECK VALVES, FLANGES, TEES, ELBOWS, | | | |
| | REDUCERS, CAPS, GASKETS, STUD BOLTS, NUTS, ETC., OF DIFFERENT SIZES | | | |

MINISTRY OF OIL ESTARI ISHMENT NAME: OIL PIPEI INES COMPANY

SHEET NO: 11 OF 14

ESTABLISHMENT NAME: OIL PIPELINES COMPANY LOCATION: OIL DEPOTS / PUMPING STATIONS / PIPELINES NETWORK

| CODE | 1 1 | UNIT | QTY | COMMENT |
|--------------|--|------|-----|---|
| | DRAG REDUCER (FLOW IMPROVEMENT ADDITIVE) COMPLETE WITH REQUIRED EQUIPMENT FOR TWO COMPLETE INSTALLATIONS, INJECTION IN PIPELINE NET WORKS AT TWO DIFFERENT I OCATIONS COMPRISED. | TON | 300 | Drag reducer and other items for pipeline as above. |
| 08-7-00-1360 | NITROGEN MODULES | MOD. | 4 | E |
| | - TANK MODULES | MOD. | 4 | = |
| | - PUMP MODULES AND ACCESSORIES | MOD. | 4 | = |
| | - ALL NECESSARY ACCESSORIES | | | = |
| | - LINE PIPE, CARBON STEEL, 42 INCHES DIAMETER, 143 KILOMETERS, FACTORY COATED WITH EXTRUDED POLYETHYLENE PLUS HEAT SHRINKARLE STEEVES | | | Equipment for dry gas 42 inch line as currently hottlenecked by 24 inch |
| | FOR GIRTH WELDS, COMPLETE WITH THE FOLLOWING | | | sections. |
| | - SLEEVE PIPE, CARBON STEEL 48 INCHES, 500 METERS | | | ŧ |
| | LENGTH, COATED WITH EXTRUDED POLYETHYLENE PLUS HEAT SHRINKABLE SLEEVES FOR GIRTH WELDS | | | |
| 08-7-00-1361 | - WELDING ELECTRODES, 125 TONS, OF DIFFERENT SIZES | LOT | | E |
| | - LINE BREAK VALVES, 42 INCHES, 17 NOS.,, 12 INCHES, | | ı | E |
| | 63 NOS LINE BREAK VALVES, SELF OPERATED, 14 INCHES, 2 | | | E |
| * | NOS LAUNCHING AND RECEIVING STATIONS, 46 INCHES, 2 | | | £ |
| | FITTINGS, DIFFERENT SIZES AND TYPES FOR AM | | | F |
| | - CATHODIC PROTECTION SYSTEM | | | £ |

SHEET NO.: 12 OF 14 ESTABLISHMENT NAME: OIL PIPELINES COMPANY LOCATION: OIL DEPOTS / PUMPING STATIONS / PIPELINES NETWORK

| QTY COMMENT | Equipment and parts for 12 inch line to carry products whilst 10" line is being repaired | Pumping stations to allow increased transfer rates between North and South. Two new boosting stations will incrase the flow whilst reducing operating pressures |
|------------------|--|---|
| UNIT | LOT | LOT |
| ITEM DESCRIPTION | PIPELINE, CARBON STEEL, 12 INCHES DIAMETER, 161 KILOMETER LENGTH, FACTORY COATED WITH EXTRUDED POLYETHYLENE, COMPLETE WITH: - LAUNCHING AND RECEIVING TRAP STATIONS - METERING AND PRESSURE REDUCTION STATIONS - LINE BREAK VALVES - CATHODIC PROTECTION SYSTEM - ACCESSORIES INCLUDING VALVES, FLANGES, TEES, ELBOWS, REDUCERS, GASKETS, CAPS, STUD BOLTS AND NUTS - WELDING ELECTRODES, FLOW METERS, FILTERS - CONTROL EQUIPMENT - HEAT SHRINKABLE SLEEVES | PUMPING STATION FOR OIL PRODUCTS COMPRISING THE FOLLOWING: MAIN PUMPS, 2 NOS INTERNAL PIPING, VALVES, FITTINGS AND ACCESSORIES MEASURING AND CONTROL EQUIPMENT REMOTE CONTROL PANEL POWER AND CONTROL CABLES PRESSURE REDUCTION STATION ELECTRICAL EQUIPMENT METERING AND GAUGING PROTECTION SYSTEM, COMPLETE (TEMPERATURE, VIBRATION, PRESSURE, ETC.) WITH ALL REQUIRED ACCESSORIES TO COMPLETE THE ABOVE OPERATION |
| CODE | 08-7-00-1362 | 08-7-00-1363 |

SHEET NO.: 13 OF 14

MINISTRY OF OIL ESTABLISHMENT NAME: OIL PIPELINES COMPANY

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| COMMENT | Supply of pipes and | uncommom sizes for | maintenance of both 42" | and 10" lines above. | = | | = | = | = | = | * |
|------------------|---|---|----------------------------------|--|--|---------|---|-----------------------------|------------------|-----------------|------------------------------|
| OTY | | 7000 | | 13000 | 143.5 | | 221 | 1500 | 21.2 | 39.5 | 742 |
| UNIT | | TON | | TON | TON | | TON | NOS. | TON | TON | TON |
| ITEM DESCRIPTION | MATERIALS FOR SPIRAL PIPES FOR REHABILITATION CONSISTING OF:- | - HOT ROLLED STEEL COILS TO BE ROLLED IN TACCORDANCE TO API S.T.D | SIZE (1500X10.31) MM. GRADE X-52 | ACCORDANCE TO ADIST DESTACED TO BE ROLLED IN | WELDING RODS & WELDING WIRE OF DIFFERENT TYPES | & SIZES | WELDING FLUX L.761 (LINCOLN TYPE) | · GRINDING DISK DIFF, SIZES | · EPOXY POWDER . | · BONDING AGENT | · POLY ETHYLEN (LOW DENSITY) |
| CODE | | | | | 08-7-00-1364 | | | | | | |

ESTABLISHMENT NAME: OIL PIPELINES COMPANY LOCATION: MID EUPHRATES AREA.

SHEET NO.: 14 OF 14

ACTIVITY NO. (70):

| | ITEM DESCRIPTION | UNII | QIX | COMMENT |
|--------------|--|------|---------------|---|
| | EXPANSION OF OIL PRODUCTS DEPOTS CONSISTING OF:- LINE PIPES, PIPE FITTING, FLANGES, VALVES AND | ITEM | 26 | This project has already been addressed in an |
| | COATING MATERIAL. | | | Amendment to Phase 6. It |
| , | - TANKS COMPLETE WITH ALL ACCESSORIES TWO | NOS. | ∞ | will improve distribution of |
| | 5000m3 FLOATING ROOF FIVE 10000m3 FLOATING ROOF & | | • | products in the area |
| | ONE 10000 m ³ FIXED ROOF | | | nominated. |
| , | - LOADING PUMPS UNDER STEEL SHED FOR GASOLINE | NOS. | 19 | |
| | AND KEROSENE WITH MOTORS & WITH ALL | | | |
| | ACCESSORIES, FIRE WATER PUMPS UNDER STEEL | | | |
| | SHED WITH MOTORS & WITH ALL ACCESSORIES. | | | |
| 08-7-70-1365 | - PRODUCT LOADING ARMS WITH ALL ACCESSORIES | NOS. | 11 | |
| | STEEL STRUCTURE PLATFORM, CONTROL AND | | | |
| | INSTRUMENTATION REQUIREMENTS, ELECTRICAL | | | |
| | REQUIRMENT ETC. | | | |
| | - PORTABLE FIRE FIGHTING EXTINGUISHING | ITEM | 12 | |
| | EQUIPMENT | | | |
| 7 | - INSTRUMENT EQUIPMENT | ITEM | 200 | |
| | CABLES | LOT | | |
| , | FITTINGS | LOT | ÷ | |
| | - FIRE ALARM SYSTEM | SET | 110 | |
| | ELECTRICAL CABLES & ACCESSORIES | LOT | - | |

MINISTRY OF OIL ESTABLISHMENT NAME: OIL PRODUCTS DISTRIBUTION COMPANY LOCATION: ALL AREAS

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|------|-------|--|
| | TRUCKS AND SPARE PARTS | | | |
| 08-7-00-1400 | SPARE PARTS FOR DIFFERENT TYPES OF TRUCK TRACTORS | NOS. | 10000 | Truck spare parts for LPG distribution |
| 08-7-00-1401 | SPARE PARTS FOR LPG AND FUEL SEMI TRAILER | NOS. | 10000 | = |
| 08-7-00-1402 | TANK LORRY 6X4 CAPACITY 18000 LIT. FOR OIL PRODUCTS WITH SPARE PARTS | NOS. | 80 | Transportation of products. |
| 08-7-00-1403 | TANK LORRY 6X4 CAPACITY 18000 LIT. FOR OIL PRODUCTS WITH P.D. METER-AND P.T.O PUMP FOR DISCHARGE WITH SPARE PARTS | NOS. | 20 | Product lorries, with PD meters. |
| 08-7-00-1404 | TRUCK TRACTOR 6X4 WITH SPARE PARTS | NOS. | 100 | Tractors for towing flat bed trailers. |
| 08-7-00-1405 | CARGO TRUCK 4X2 CARGO CAPACITY 12 TONS MAX. WITH SPARE PARTS | NOS. | 15 | 31 |
| 08-7-00-1406 | RECOVERY TRUCKS WITH SPARE PARTS | NOS. | 10 | Vehicles for recovery of broken down |
| | | | | transportation |
| 08-7-00-1407 | LPG SEMI TRAIL OR CAP. 45000 LIT. WITH SPARE PARTS | NOS. | 10 | LPG tanks for gas transportation |
| 08-7-00-1408 | TANK LORRY FOR WATER TRANSPORT 2X4 CAP. 12000 LIT. WITH SPARES | NOS. | 10 | Vehicles for water transfer |
| 08-7-00-1409 | TRUCK CLEANERS FOR FUEL TANKS WITH SPARE PARTS | NOS. | 4 | Cleaning trucks with |
| | | | | rech curating systems. |

SHEET NO.: 2 OF 4 ESTABLISHMENT NAME: OIL PRODUCTS DISTRIBUTION COMPANY LOCATION: ALL AREAS MINISTRY OF OIL

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|--|--------------|----------|---|
| 08-7-00-1410 | TYERS 1200 X 20 X 18 (RADIAL) WITH TUBE AND FLAP | NOS. | 0009 | Replacements for worn tyres |
| 08-7-00-1411 | BATTERIES 12 V X 135 A | NOS. | 1000 | 11 |
| | LIGHT TRUCKS AND SPARE PARTS | | | |
| 08-7-00-1412 | LIGHT CARGO TRUCKS 2X4 CARGO CAPACITY 3TON DIESEL DRIVEN WITH SPARE PART | NOS. | 15 | Vehicles for lube oil distribution |
| 08-7-00-1413 | MOBILE WORK SHOPS WITH SPARE PART | NOS. | 10 | Maintenance requirements |
| 08-7-00-1414 | PICK UP LIGHT TRUCK WITH SPARE PARTS | NOS. | 09 | Personnel transport |
| 08-7-00-1415 | MINI BUS 10 SEATS WITH SPARE PARTS | NOS. | 25 | |
| 08-7-00-1416 | SPARE PARTS FOR HEAVY DUTY LIGHT TRUCKS | NOS. | 2000 | = |
| | HEAVY EQUIPMENT AND SPARE PARTS | | | |
| 08-7-00-1417 | MOBILE HYDR CRANES 10-20 TON LOADING CAP. WITH SPARES | NOS. | 9 | Maintenance requirements |
| 08-7-00-1418 | BULK CEMENT CARRIER CAP. 32M3 WITH SPARES | NOS. | 7 | Cement truck for deliveries |
| | EQUIPMENT AND ACCESSORIES | | | |
| 08-7-00-1419 | MOBILE AIR COMPRESSORS WITH SPARES | NOS. | 10 | For maintenance of filling stations |
| | DIESEL ELECTRIC GENERATORS | | | |
| 08-7-00-1420 | 50-60 KVA 100-110 KVA | NOS. NOS. | 20 10 | Emergency power supplies for filling stations |
| 071-00-1-00 | 250 KVA | NOS. | 5 | |
| | DEPOTS AND PETROL FILLING STATIONS EQUIPMENT AND ACCESSORIES | | | |
| 08-7-00-1421 | FUEL DISPENSERS WITH SPARES | NOS. | 300 | Dispensers for filling stations |
| 08-7-00-1422 | SPARE PARTS FOR NUOVOPIGNONE FUEL PUMPS | NOS. | 4000 | Spares for existing pumps. |
| | | | | |

SHEET NO.: 3 OF 4 ESTABLISHMENT NAME: OIL PRODUCTS DISTRIBUTION COMPANY LOCATION: ALL AREAS MINISTRY OF OIL

| CODE 08-7-00-1423 | SPARE PARTS FOR NOZZLES | UNIT | YTQ | COMMENT Filling station sparses |
|----------------------|--|------|-------|------------------------------------|
| 08-7-00-1424 | STANDARD VOLUME CALIBRATING DEVICES | NOS. | 160 | 6 mdc 11011111 9 1111111 |
| 08-7-00-1425 | P.D. METERS | NOS. | 100 | н |
| 08-7-00-1426 | SPARE PARTS FOR METERS | NOS. | 2000 | ı |
| 08-7-00-1427 | PIPES SIZE 2"-16" | MTR. | 20000 | 16 |
| 08-7-00-1428 | FITTING SIZE 2"-16" | NOS. | 7000 | |
| 08-7-00-1429 | SUBMERSIBLE PUMPS | NOS. | 300 | 11 |
| 08-7-00-1430 | LABORATORY TESTING EQUIPMENT WITH ACCESSORIES | SET | 200 | Lab equipment for local OC. |
| 08-7-00-1431 | OIL PRODUCTS STORAGE TANKS WITH ALL ACCESSORIES CAP.10000 M ³ | NOS. | 4 | Product storage tanks |
| 08-7-00-1432 | OIL PRODUCTS STORAGE TANKS WITH ALL ACCESSORIES CAP,50000 M ³ | NOS. | 8 | Product storage tanks |
| 08-7-00-1433 | OIL PRODUCTS STORAGE TANKS WITH ALL ACCESSORIES CAP.20000 M3 FLOATING ROOF | NOS. | 2 | Product storage tanks |
| 08-7-00-1434 | TOOLS FOR MAINTENANCE IN PETROL STATIONS AND DEPOTS | NOS. | 1000 | Repair and maintenance tools |
| | SEALING WIRES | KG. | 1000 | Sealing equipment |
| 08-7-00-1435 | TOOLS FOR SEALING | NOS. | 100 | = |
| | TAGS FOR SEALING | NOS. | 30000 | Ξ |
| 08-7-00-1436 | LOADING AND UNLOADING PUMPS | NOS. | 5 | Pumps for products |
| 08-7-00-1437 | LOADING ARMS | NOS. | 5 | Loading arms for |
| | | T | | The state of the state of |

MINISTRY OF OIL ESTABLISHMENT NAME: OIL PRODUCTS DISTRIBUTION COMPANY LOCATION: ALL AREAS

| CODE | ITEM DESCRIPTION | UNIT | QTY | COMMENT |
|--------------|---|------|-------|--|
| | ELECTRIC EQUIPMENT ACCESSORIES | | | |
| 08-7-00-1438 | LIGHTING FITTINGS | NOS. | 25000 | Electrical and control items for filling stations and depots |
| 08-7-00-1439 | WINDING WIRES FOR ELECTRIC MOTOR | TON | 25 | E |
| 08-7-00-1440 | ELECTRONIC EXCHANGER (OPERATORS) | NOS. | 6 | 11 |
| 08-7-00-1441 | CONTROL CABLES | MTR. | 20000 | 2 |
| 08-7-00-1442 | TELEPHONE SET | NOS. | 200 | = |
| | FIRE AND SAFETY EQUIPMENT | | | |
| 08-7-00-1443 | FIRE FIGHTING EQUIPMENT | NOS. | 400 | Safety and fire fighting equipment, and consumables |
| 08-7-00-1444 | FIRE FIGHTING TRUCK WITH SPARE PARTS | NOS. | 2 | |
| 08-7-00-1445 | FIRE FIGHTING PUMPS | NOS. | 5 | = |
| 08-7-00-1446 | FIRE FIGHTING FOAM | LIT. | 20000 | = |
| 08-7-00-1447 | DRY CHEMICAL POWDER FOR FIRE EXTINGUISHERS | TON | 10 | = |
| 08-7-00-1448 | REFILLING | NOS. | 1 | = |
| 08-7-00-1449 | AMBULANCE | NOS. | 1 | = |
| 08-7-00-1450 | SAFETY SHOES, SUITS &GLOVES | | 4000 | = |
| 08-7-00-1451 | INSTRUMENTS FOR MEASURING HYDROCARBON GASES AND INSPECTION TESTING WITH ACCESSORIES | SET | 100 | Safety testing equipment |